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Volume VI.—No. 5

A BOTANICAL TOUR IN THE TINNEVELLY HILLS

BY

M. S. RAMASWAMI, M.A.,

Officiating Curator of the Herbarium,
Royal Botanic Garden, Calcutta.

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A BOTANICAL TOUR IN THE TINNEVELLY HILLS

By

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Officiating Curator of the Herbarium, Royal Botanic Garden, Calcutta.

PART I.

THE following is a brief account of a botanical excursion undertaken by the writer and Mr. D. Hooper, late Economic Botanist to the Botanical Survey of India, in the month of February 1913, to a portion of the Tinnevelly hills, in accordance with instructions from Major A. T. Gage, I.M.S., Director of the Botanical Survey of India.

Topography and Nature of the Vegetation.

The District of Tinnevelly is roughly triangular in shape, occupying the eastern half of the extreme southern end of the Indian Peninsula. It is bounded on the west by the Western Ghâts, on the east and south by the sea, on the north by the district of Madura and "lies between 8° 9′ and 9° 43′ N. and 77° 12′ and 78° 23′ E., having an area of 5,389 square miles with an extreme length of 120 miles from north to south and a maximum width of 75 miles near the Madura frontier."

The district can be divided naturally into three distinct portions :—

(1) The coast, with back waters, Avicennia type of growth and salt-swamps.

(2) The plains between the coast and the western hill slopes, with a few low stony hills covered with a poor scrubby growth and long stretches of shifting red sand known locally as the *Teri*. The Palmyra is the principal feature of this region.

(3) The ghat slopes on the west with elevations ranging from 300 ft. to 6,000 ft. It is from these the district gradually slopes down eastward to the sea. The outer slopes are often very bare and sometimes covered with a few grasses and some scattered trees, more or less deciduous. The inner slopes, however, contain much evergreen forest, frequently even at low elevations, and above 2,500 ft. very large stretches of regular moist heavy evergreen shola. These shola forests lie mostly in 3 taluks, *viz.*, Tenkasi, Ambasamudram and Nanguneri. In Tenkasi the slopes face nearly north, in Ambasamudram and Nanguneri nearly west, with a distinct corner ground by an outlying spur between the two.

It is to a few of the sholas situated on the slopes of the last named two taluks our excursion was confined.

The District is drained by several rivers the chief of them being the Tambraparni. All of them have their sources in the Ghats and run eastwards into the sea.

Although there are no distinctly well-marked seasons during the year, the hot and the cold seasons are fairly distinct. The hottest months are from April to June " when the temperature is rarely above 95° in the shade and the coldest months are December and January when the temperature seldom falls below 77°."

The rainfall is greatest near the hills and least on the eastern side, but even in the hills themselves there are local variations in the rainfall. In the three western taluks above mentioned, " the maximum is nearly 60 inches while the minimum is about 20 inches. In other parts of the district the fall varies from between 40 and 50 inches as a maximum to between 10 and 15 inches as a minimum."

The ghat slopes of the Nanguneri Taluk were first explored. Several small coffee estates nestle in the more sheltered valleys of the higher elevations on this side. From Tirukarungudi a small bridle path leads into these estates. At the foot of the hills the vegetation is somewhat uniform, strongly reminding one of the plains at the foot of the Nilgiri hills. Composites and hill grasses were particularly abundant. Up to 2,000′, *Stenosiphonium Russellianum* takes the first place and then several other shrubs and herbs belonging to the Natural orders *Rubiaceæ* and *Compositæ* respectively. Above 2,000′, the herbaceous vegetation on the clearings of the coffee estates consisted chiefly of patches of *Kalanchoe, Vernonia spp.* a *Barleria*, an *Asystasia*, several shrubs belonging to the Natural orders *Rubiaceæ* and *Acanthaceæ* and various leguminous herbs. The silver oak *Grevillea* was found largely planted in this area. From 3,000′ to 4,000′, a very heavy evergreen forest occurs. These evergreen forests generally get the full force of the S. W. Monsoon as well as heavy showers during the N. E. monsoon so that they are exceedingly damp nearly throughout the year. The trees composing this forest are very tall and of many different species. Amongst the most common and conspicuous are *Hopea parviflora, Balanocarpus utilis, Artocarpus hirsuta, Gordonia obtusa, Bombax malabaricum, Elæocarpus oblongus, Elæocarpus tuberculatus, Pterocarpus Marsupium, Ormosia travancorica, Hardwickia binata, Pithecolobium subcoriaceum, Myristica attenuata, Myristica laurifolia, Tectona grandis, Litsea sebifera, Villebrunea intergrifolia* and others too numerous to mention—most of them being evergreen.

Climbing and twining plants are represented by such species as *Mucuna atropurpurea, Derris scandens, Piper nilghirianum, Hoya pauciflora,* several species of *Jasminium, Thunbergia fragrans, Dunbaria ferruginea, Rubia cordifolia* and several species of Yams such as *Dioscorea pentaphylla, Dioscorea spicata,* etc.

The shrubby undergrowth of this forest was constituted chiefly by several species of *Leguminosæ, Rubiaceæ* and *Acanthaceæ* such as *Crotalaria albida, Crotalaria verrucosa, Indigofera pulchella, Indigofera tinctoria,*

Tephrosia tinctoria, Desmodium scalpe, Desmodium latifolium, Rhynchosia cana, Rhynchosia rufescens, Wendlandia Notoniana, Hedyotis purpurascens, Hedyotis viscida, Mussaenda frondosa, Pavetta indica, Pavetta breviflora, Psychotria congesta, Psychotria elongata, Strobilanthes pulneyensis, Barleria nitida, Crossandra undulaefolia, Diotacanthus albiflorus, Diotacanthus grandis, as well as a few species belonging to other orders such as *Polygala arillata, Hypericum mysorense, Chloranthus brachystachyus* several species of *Cinnamomum, Lasiosiphon eriocephalus, Sauropus albicans, Agrostistachys indica, Debregeasia velutina.*

The herbaceous vegetation was extremely rich, and consisted chiefly of several species in each of *Compositæ, Leguminosæ, Rubiaceæ, Gramineæ, Scitamineæ* and *Campanulaceæ.* Ferns and Selaginellas were quite abundant in moist hollows. Parasitic *Loranthi* and *Viscums* were noticed on several trees. *Balanophora indica* with its beautiful spike of coral-red male flowers was invariably present on the ground near the base of several of the tall trees. Plants of economic importance, noticed in these sholas, were cardamoms and turmeric. Fringing the margins of the several small hill streams which we crossed are found *Impatiens grandis, Impatiens subcordata,* two or three small shrubs of *Osbeckia,* a very small leaved *Elatostema, Polygonum chinense, Arisæma Leschenaultii, Anaphyllum Beddomei* and several species of sedges and ferns—prominent among the former being *Scirpus mucronatus* and *Cyperus corymbosus.* Within and mixed up with the fringe of sedges *Viola distans, Laurembergia (Serpicula) hirsuta* and an *Utricularia* occur in great abundance.

The vegetation on the other side of these slopes towards Kalkad was to all intents the same, except that the forests here are frequently broken by dense impenetrable stretches of *Ochlandra travancorica.*

The down hill journey from Naterikal to Kalkad proved very interesting as it enabled us to observe the striking transition from a high elevation flora to a low elevation one. High elevations contained species of *Clematis, Begonias* on moist rocks, *Pouzolzias* hanging in clusters above the rocks with their long arching inflorescences, pretty looking *Lobelias, Argyreias* with white-villous leaves, several *Didymocarpi* and other gesnerads with crumpled velvety leaves, numerous species of *Rubus* and *Anaphalis* besides a few terrestrial and epiphytic orchids. On gradually going down these disappear more or less and *Strobilanthes* shrubs take their place becoming quite abundant, followed by several shrubs belonging to the Natural orders *Rubiaceæ* and *Acanthaceæ.* Finally, around Kalkad in the plains several *Euphorbias, Helicteres Isora, Grewia spp., Dioscorea spp., Aristolochia spp.* and a host of Leguminous and Compositaceous herbs are noticeable, the Palmyra of course occurring everywhere on the plains.

The second part of our expedition was across what is known as the Papanasam hills towards Kannikatti, situated in the Ambasamudram Taluk at an elevation of 2,500 feet in moist heavy shola. The vegetation along our route up to Mundandurai which stands at an elevation of only about 700 feet, presented no remarkable features except thickets of thorny deciduous shrubs

composed of such species as *Randia dumetorum, Hugonia Mystax, Scutia indica, Grewia spp., Capparis spp.* and a host of other shrubs.

After leaving Mundandurai our march lay across forests. These are not so dense and impenetrable as those near Naterikal. There were a lot of species peculiar to these forests as distinct from those of the other forests. Instead of attempting to give a detailed enumeration of all the species collected by us here, it will be convenient to consider the chief distinctive points in the flora of this area. One striking peculiarity of the vegetation of this region lies in the large preponderance of several typical Ceylon plants such as *Garcinia echinocarpa, Filicium decipiens, Pithecolobium subcoriaceum, Erythroxylum lucidum, Dianella ensifolia* and several others. Another feature, though somewhat less striking, is the presence of a number of species common to this region and the Malay Peninsula. These are *Scolopia crenata, Calophyllum inophyllum, Urena lobata, Aglaia Roxburghiana, Erythropalum populifolium,* besides several other herbs.

Remarks on the Distribution of Species.

Though the collection dealt with in this paper is no doubt a very partial one, a glance at the systematic list will show that it possesses some interest with regard to the distribution of the species. Of the 470 plants enumerated, the following species are known to be endemic to this area (*i.e.*, occurring only in the Tinnevelly hills and the adjoining portion of Travancore hills) :—

Ionidium travancoricum, Balanocarpus utilis, Pterospermum obtusifolium, Leptonychia moacurroides, Homalium travancoricum, Hedyotis albo-nervia, Hedyotis purpurascens, Hedyotis viscida, Acranthera grandiflora, Psychotria nudiflora, Centratherum molle, Vernonia sp. Vernonia travancorica, Ardisia sp., Diospyros Barberi, Diospyros foliolosa, Didymocarpus Rottleriana, var. Wightii, Stenosiphonium Russellianum, var. subsericea, Andrographis elongata, Andrographis viscosula, Diotacanthus albiflorus, Diotacanthus grandis, Orthosiphon comosus, Coleus parviflorus, Anisochilus robustus, Anisochilus scaber, Cinnamomum gracile, Mallotus Beddomei, Elatostema sp., Ania latifolia, Elettaria Cardamomum, Anaphyllum Beddomei, Ochlandra travancorica.

There is, therefore, a very appreciable endemic element in the Tinnevelly flora, as the present collection alone contains 33 endemic forms out of a total of 470, making about one-fourteenth or 7·02 per cent. of the whole. Of the remaining thirteen-fourteenths, 12 plants, making only 2·12 per cent. of the whole collection, are purely Ceylon species while 47 or 10 per cent. are purely South Peninsular Indian ones, the number of species common only to both these regions being 123 or 26·17 per cent. of the whole. There are still 255 species left out of which a little more than half are distributed throughout India while varying proportions of the remaining half are distributed to Assam, Upper Burma, Lower Burma and Malaya.

A synoptic view of the systematic character of the collection is given in the following table :—

Systematic synopsis of Tinnevelly plants collected during February 1913.

—	Natural orders.	Genera.	Species.
Phanerogamia	94	310	449
Dicotyledones	80	266	394
Polypetalae	43	119	167
Thalamiflorae	15	27	36
Disciflorae	11	30	37
Calyciflorae	17	62	94
Gamopetalae	24	106	170
Monochlamydeae	13	41	57
Gymnosperms	1	1	1
Monocotyledones	13	43	54
Cryptogamia	6	20	21
TOTALS	100	330	470

Of Phanerogams, the whole collection comprises 94 Natural orders, 310 genera and 449 species. The most extensively represented Natural order is, as might be expected, *Leguminosœ* with 55 species, followed by *Rubiaceœ* with 38 species; *Compositœ, Acanthaceœ* and *Labiatœ*, 24 each; *Euphorbiaceœ*, 21; *Gramineœ*, 14; *Convolvulaceœ* and *Urticaceœ* 10 each; of those natural orders with less than 10 species, *Melastomaceœ* and *Solanaceœ* have 9 each; *Asclepiadaceœ*, *Orchidaceœ* and *Cyperaceœ* 7 each; *Malvaceœ*, *Cucurbitaceœ* and *Verbenaceœ* 6 each. There are seven Natural orders with five representatives, nine with four species, sixteen with three species, ten with two species, the rest with but one species each.

Itinerary.

Our Itinerary very briefly shown is as follows :—

7th February 1913	.	left Calcutta.
8th ,,	. .	in the train.
9th ,,	. .	At Madras.
10th ,,	. .	all day in the train ; all night travelling in bullock cart.
11th ,,	. .	at Tirukarungudi.
12th ,,	. .	Tirukarungudi to Naterikal.
13th ,,	. .	at Naterikal.
14th ,,	. .	Naterikal to Sengalteri.
15th ,,	. .	at Sengalteri.
16th ,,	. .	all day Sengalteri to Kalkad ; all night Kalkad to Sermadevi.
17th ,,	. .	Sermadevi to Ambasamudram.
18th ,,	. .	Ambasamudram to Mundandurai.
19th ,,	. .	at Mundandurai.
20th ,,	. .	Mundandurai to Kannikatti.
21st ,,	. .	at Kannikatti.
22nd ,,	. .	Kannikatti to Mundandurai.
23rd ,,	. .	Mundandurai to Ambasamudram.
24th ,,	. .	Ambasamudram to Madras.
25th ,,	. .	at Madras.
26th ,,	. .	left Madras.
27th ,,	. .	in the train.
28th ,,	. .	arrived in Calcutta.

The whole excursion occupied just three weeks, of which a little more than a week was spent in travelling from Calcutta to Tinnevelly and returning from Tinnevelly to Calcutta.

The writer is glad to end this brief attempt to give an account of the tour, which was at best but a hurried rush across the district, by expressing his and Mr. Hooper's obligations to Messrs. T. P. Peake and F. L. Brigstocke, the former the principal Forest Officer of the District, the latter the Sub-Divisional Officer at Sermadevi and also to the Forest Range Officers, who accompanied us in their respective ranges and did all in their power to make the trip comfortable.

PART II.

SYSTEMATIC CENSUS.

The accompanying systematic list includes all the plants collected during the excursion whether they are indigenous or introduced, wild or cultivated, and identified by the writer at the Calcutta Herbarium. New species or species not known to occur previously in Southern India and those not mentioned in the Flora of British India are distinguished by an* prefixed to them —the basis for the former having been taken from the existing examples in the Calcutta Herbarium. Throughout the list references have been given to Hooker's Flora of British India. The Intra-Indian Distribution of every species is given and is nearly always taken from specimens in the Calcutta Herbarium. The sequence of Bentham and Hooker's Genera Plantarum is chiefly followed and the species are arranged in alphabetical order under the respective genera. The writer is vastly indebted to Major A. T. Gage, I.M.S., Director, Botanical Survey of India, for having kindly examined and identified the several critical species forwarded to him while he remained at Kew and also for his kind encouragement throughout.

PHANEROGAMIA.

DICOTYLEDONES.

POLYPETALÆ.

THALAMIFLORÆ.

I.—RANUNCULACEÆ.

1. Clematis Linn.

1. Clematis Gouriana Roxb.—F. B. I., i, p. 4.
Sengalteri to Kalkad, 3,000 ft., No. 39213.
Distr. Himalaya to Ceylon, E. Peninsula.

2. Naravelia DC.

2. Naravelia zeylanica DC.—F. B. I., i, p. 7.
Mundandurai, 1,500 ft., No. 39373.
Distr. Tropical Himalaya, Bengal, Assam, East and West Peninsula, Ceylon.

II.—MENISPERMACEÆ.

3. Cissampelos Linn.

3. **Cissampelos Pareira** Linn.—F. B. I., i, p. 103.
Mundandurai to Kannikatti, 2,400 ft., No. 39360.
Distr. Throughout India.

III.—CAPPARIDEÆ.

4. Cleome Linn.

4. **Cleome monophylla** Linn.—F. B. I., i, p. 168.
Papanasam to Mundandurai, No. 39282.
Distr. Peninsular India and Ceylon.

5. Cadaba Forsk.

5. **Cadaba trifoliata** W. & A.—F. B. I., i, p. 172.
Mundandurai, Nos. 39302, 39279.
Distr. Southern Districts of the Madras Presidency and Ceylon.

6. Capparis Linn.

6. **Capparis horrida** Linn.—F. B. I., i, p. 173.
Naterikal road, 1,000 ft., No. 38448.
Distr. Throughout India.

IV.—VIOLACEÆ.

7. Viola Linn.

7. **Viola distans** Wall.—F. B. I., i, p. 183.
Naterikal hill, 4,000 ft., No. 38543.
Distr. Mountainous parts of India generally.

This plant was found almost floating in fresh water on the hill-top in company with a *Cyperus* and *Laurembergia hirsuta*.

8. Ionidium Vent.

8. **Ionidium suffruticosum** Ging.—F. B. I., i, p. 185.
Sengalteri to Kalkad, No. 39255; Naterikal, No. 38437.
Distr. Throughout India and Ceylon.

9. * **Ionidium travancoricum** Bedd. I.c. Pl. or. i, 55.
Sengalteri to Kalkad, 3,000 ft., No. 39217.
Distr. Apparently endemic to the Tinnevelly hills.

V.—BIXINEÆ.

9. Scolopia Schreb.

10. Scolopia crenata Clos.—F. B. I., i, p. 191.
Nardkhani shola, 2,000 ft., No. 38338.
Distr. Malabar, Mysore and Ceylon.

VI.—POLYGALEÆ.

10. Polygala Linn.

11. Polygala javana DC.—F. B. I., i, p. 201.
Naterikal road, 2,000 ft., No. 38412; Naterikal hill, No. 38493; Mundandurai, 700 ft., No. 39310.
Distr. Western Peninsula and Ceylon.

12. Polygala arillata Ham.—F. B. I., i, p. 200.
Naterikal, top of hill, 4,000 ft., No. 38536.
Distr. Eastern India, Western Peninsula, Ceylon.

11. Xanthophyllum Roxb.

13. Xanthophyllum flavescens Roxb.—F. B. I., i, p. 209.
Kannikatti, 2,500 ft., No. 39405.
Distr. East Bengal, Western Peninsula.

VII.—CARYOPHYLLEÆ.

12. Polycarpæa Lamk.

14. Polycarpæa corymbosa Lamk.—F. B. I., i, p. 245.
Sengalteri, 3,000 ft., No. 38699.
Distr. Throughout India generally.

VIII.—PORTULACEÆ.

13. Portulaca Linn.

15. Portulaca oleracea Linn.—F. B. I., i, p. 246.
Ambasamudram, No. 39439.
Distr. Nearly throughout India.

IX.—HYPERICINEÆ.

14. Hypericum Linn.

16. Hypericum mysorense Heyne.—F. B. I., i, p. 253.
Naterikal, No. 38497; Sengalteri, 3,000 ft., No. 38697.
Distr. S. Peninsular India, Ceylon; common.

X.—GUTTIFERÆ.

15. Garcinia Linn.

17. ***Garcinia echinocarpa** Thw.—F. B. I., i, p. 264.
Kannikatti, 2,500 ft., No. 39428.
Distr. Ceylon.

This record is interesting in the fact that the species is not entirely restricted to Ceylon but its distribution also extends to the Tinnevelly District.

18. **Garcinia Morella** Desr.—F. B. I., i, pp. 264-265.
Kannikatti, 2,500 ft., No. 39433.
Distr. East Bengal, Khasia, Eastern and Western Peninsulas.

16. Calophyllum Linn.

19. **Calophyllum inophyllum** Linn.—F. B. I., i, p. 273.
Tirukarungudi, No. 38323.
Distr. Eastern and Western Peninsulas, Ceylon.

This plant was also noticed several times in a cultivated state, near roads and dwelling houses. The seeds, the people informed us, afford excellent oil for burning lamps.

XI.—TERNSTRŒMIACEÆ.

17. Gordonia Ellis.

20 **Gordonia obtusa** Wall.—F. B. I., i, p. 291.
Naterikal, 3,000 ft., No. 38361; Sengalteri, near bungalow, 3,000 ft., No. 38694.
Distr. Mountains of the Western Peninsula.
A very common tree in this shola.

XII.—DIPTEROCARPEÆ.

18. Balanocarpus Bedd.

21. ***Balanocarpus utilis** Bedd.
Mundandurai to Kannikatti, 1,700 ft., No. 39380.
Distr. Near Tinnevelly (Beddome).

Beddome in Flora. Sylvat. Gen. XXVII says of this species under H. parviflora Bedd." my specimens from southern Tinnevelly where the tree is called *Nirkong* have longer and narrower leaves (5-7 inches long by 1-1½ inches broad) than the south Canara specimens,....". Afterwards Sir William Thiselton Dyer when writing up the account of the order *Dipterocarpeæ* for the Flora of British India, made the above quoted Tinnevelly specimens of Beddome to be the type of a new species and called it Hopea longifolia *Dyer*. As far as is known at present this species seems restricted only to South Tinnevelly.

XIII.—MALVACEÆ.

19. Urena Linn.

22. Urena lobata Linn.—F. B. I., i, p. 329.
Naterikal, 3,000 ft., No. 38367.
Distr. Throughout India generally.

20. Pavonia Cav.

23. Pavonia zeylanica Cav.—F. B. I., i, p. 331.
Naterikal road, 2,000 ft., No. 38462.
Distr. North-Western Provinces, Western Peninsula and Ceylon.

24. Pavonia odorata Willd.—F. B. I., i, p. 331.
Sengalteri to Kalkad, No. 39246.
Distr. North-Western Provinces, Western Peninsula, Burma and Ceylon.

21. Hibiscus Medik.

25. Hibiscus micranthus Linn.—F. B. I., i, pp. 335—336.
Tirukarungudi, No. 38311.
Distr. Throughout India generally.

26. Hibiscus canescens Heyne.—F. B. I., i. p. 337.
Papanasam to Mundandurai, No. 39290.
Distr. Mysore and Southern Districts, Madras Presidency.

27. Hibiscus angulosus Mast.
var. purpureus Thw.—F. B. I., i, pp. 341-342.
Naterikal hill, 4,000 ft., Nos. 38350, 38526.
Distr. Southern Peninsular India and Ceylon.

XIV.—STERCULIACEAE.

22. Helicteres Linn.

28. Helicteres Isora Linn.—F. B. I., i, p. 365.
Naterikal hill, 4,000 ft., No. 38461 ; Sengalteri to Kalkad, 2,000 ft., No. 39253.
Distr. Central India, Peninsular India and Ceylon. Abundant.

23. Pterospermum Schreb.

29. Pterospermum Heyneanum Wall.—F. B. I., i, p. 369.
Mundandurai to Kannikatti, 2,000 ft., No. 39383.
Distr. Mountains of the Western Peninsula.

30. Pterospermum obtusifolium Wight.—F. B. I., i, pp. 369-370.
Nardkhani shola, 2,000 ft., No. 38336.
Distr. Tinnevelly.
So far, this Pterospermum appears to be endemic in the Tinnevelly hills.

24. **Waltheria** Linn.

31. Waltheria indica Linn.—F. B. I., i, pp. 374-375.
Naterikal hill, 4,000 ft., No. 38434.
Distr. Throughout India generally.

XV.—TILIACEÆ.

25. **Grewia** Linn.

32. Grewia columnaris Sm.—F. B. I., i, p. 383-384.
Sengalteri to Kalkad, No. 39242; Papanasam to Mundandurai, No. 39287.
Distr. Bengal, Peninsular India, Ceylon.

33. Grewia tiliæfolia, Vahl.—F. B. I., i, p. 386.
Nardkharni shola, 2,000 ft., No. 38342.
Distr. Western India, Peninsular India, Burma, Ceylon.

This identification must be regarded as tentative until complete material is obtained. The leaves are very large—scarcely the size given in the description. Our material consisted of leaves only.

26. **Triumfetta** Linn.

34. Triumfetta pilosa Roth.—F. B. I., i, pp. 394-395.
Naterikal to Sengalteri, 3,500 ft., No. 38589.
Distr. Throughout India generally.

35. Triumfetta rhomboidea Jacq.—F. B. I., i, p. 395.
Naterikal to Sengalteri, 3,500 ft., No. 38652.
Distr. Throughout India generally.

27. **Leptonychia** Turcz.

36. Leptonychia moacurroides Bedd.—F. B. I., i, p. 379.
Kannikatti, 2,500 ft., No. 39427.
Distr. Travancore and Tinnevelly.
Probably restricted to this region.

DISCIFLORÆ.

XVI.—LINEÆ.

28. **Hugonia** Linn.

37. Hugonia Mystax Linn.—F. B. I., i, p. 413.
Naterikal road, 2,000 ft., No. 38471.
Distr. Peninsular India and Ceylon.

29. Erythroxylon Linn.

38. ***Erythroxylon lucidum** Moon.—F. B. I., i, p. 415.
Kannikatti, 2,300 ft., No. 39403.
Distr. Ceylon.
Not previously recorded from Southern India.

39. **Erythroxylon monogynum** Roxb.—F. B. I., i, p. 414.
Mundandurai, 700 ft., No. 39308.
Distr. Southern Peninsular India and Ceylon.

XVII.—GERANIACEÆ.

30. Biophytum De Cand.

40. **Biophytum sensitivum** DC., var. 1, **Candolleana**,—F. B. I., pp. 436-437.
Sengalteri to Kalkad, 3,000 ft., No. 39220.
Distr. South-West Peninsula and Ceylon.

31. Impatiens Linn.

41. **Impatiens Balsamina** Linn. var ?—F. B. I., i, p. 454.
Naterikal, 2-3,000 ft., No. 38393.
I am a little doubtful about the variety under which this is to be placed. The material is insufficient for fixing definitely the variety.

42. **Impatiens grandis** Heyne—F. B. I., i, p. 463.
Naterikal to Sengalteri, 3,500 ft., No. 38656.
Distr. Mountains of Malabar and Tinnevelly.

43. ***Impatiens subcordata** Arn.—F. B. I., i, pp. 461-462.
Naterikal to Sengalteri, 3,500 ft., Nos. 38598, 38611.
Distr. Ceylon.
This is yet one more instance of a Peninsular distribution for a Ceylon Plant.

XVIII.—RUTACEÆ.

32. Toddalia Juss.

44. **Toddalia aculeata** Pers.—F. B. I., i, p. 497.
Naterikal, Nos. 38375, 38638. Mundandurai, No. 39334.
Distr. Throughout India generally.

33. Acronychia Forst.

45. **Acronychia laurifolia** Bl.—F. B. I., i, p. 498.
Naterikal, 4,000 ft., No. 38544.
Distr. Throughout India generally.

34. Glycosmis Corr.

46. Glycosmis pentaphylla Corr.—F. B. I., i, pp. 499-500.
Mundandurai, 700 ft., No. 39322; Kannikatti, 2,500 ft., No. 39423.
Distr. Throughout India generally.

35. Atalantia, Corr.

47. Atalantia monophylla Corr.—F. B. I., i, pp. 511-512.
Naterikal, No. 38451.
Distr. Silhet, Peninsular India and Ceylon.

36. Citrus Linn.

48. Citrus decumana Linn.—F. B. I., i, pp. 516.
Naterikal, No. 38379.
Distr. Cultivated in India—a native of the Malayan and Polynesian Islands.

XIX.—BURSERACEÆ.

37. Filicium Thw.

49. Filicium decipiens Thw.—F. B. I., i, pp. 539-540.
Sengalteri, 3,000 ft., No. 39211.
Distr. South-West Peninsula and Ceylon.

XX.—MELIACEÆ.

38. Aglaia Lour.

50. Aglaia Roxburghiana Miq.—F. B. I., i, p. 555.
Mundandurai, 700 ft., No. 39322; Kannikatti, 2,000 ft., No. 39431.
Distr. Western Peninsula, Ceylon and Singapore.

51. Aglaia sp. aff. apiocarpa Hiern.
Naterikal to Sengalteri, 3,500 ft., No. 38670.

This differs from the Ceylon species *A. apiocarpa* in its narrower 7-9 leaflets with strongly involute margins, its less dense panicle (male rather lax, flowers being distinctly pedicellate, hermaphrodite very dense, flowers being almost sessile) and its miniature gourd-shaped non-apiculate rough, brown, lepidote fruit.

A moderate sized tree, extremities of young shoots covered very densely with dark-brown scales. *Leaves* unequally pinnate, leaflets 7-9 unequally elliptic, acute, base cuneate, densely lepidote beneath, margins strongly folded inwards. *Panicle* shorter than the leaves, sometimes supra-axillary, with short spreading branches, male lax, hermaphrodite very dense.
Flowers as long as the pedicels, bracteolate.
Calyx 5 lobed, lobes hairy and minutely ciliolate.

Petals 5 concave, short, imbricate, slightly glandular at the apex.
Staminal tube subglobose, shallowly 5 lobed.
Anthers 5, just above the sinuses between the lobes, half-exserted, erect, hairy.
Ovary globose, ferruginous hairy, 1 celled, style very short, almost obsolete.
Stigma capitate. *Berry* dry, 1 seeded, rough, dirty-brown, gourd-shaped.
Seed solitary. *Testa* smooth.

Some specimens exactly matching this were already existing in Herb. Calc. doubtfully under A. minutiflora *Bedd.* But on examination I think they are not A. minutiflora *Bedd.* but may be the present species.

39. Walsura Roxb.

52. Walsura piscidia Roxb.—F. B. I., i, p. 564.
Nardkani shola, 2,000 ft., No. 38328.
Distr. Peninsular India and Ceylon.

40. Cedrela Linn.

53. Cedrela Toona Roxb.—F. B. I., i, pp. 568-569.
Nardkhani shola ; 2,000 ft., No. 38344.
Distr. Throughout India generally.

41. Chloroxylon DC.

54. Chloroxylon Swietenia DC.—F. B. I., i, p. 569.
Nardkhani, 2,000 ft., No. 38339 ; Naterikal road, 4,000 ft., No. 38480.
Distr. Western Peninsula and Ceylon.

XXI.—OLACINEÆ.

42. Erythropalum Blume.

55. Erythropalum populifolium Mast.—F. B. I., i, p. 578.
Kannikatti, 2,500 ft., No. 39414.
Distr. South Malabar, Travancore, Anaimalai hills and Ceylon.

43. Pyrenacantha Hook.

56. *Pyrenacantha volubilis Hook.
Sengalteri to Kalkad, No. 39271 ; Mundandurai, 700 ft., No. 39345.
Distr. Madura and Ceylon.

This Ceylon plant was sent by Dr. (now Sir) A. G. Bourne to the Calcutta Herbarium as having been found in Madura in 1898 and latterly by Mr. C. E. C. Fischer in 1911, collected in the same district.

The Natural order to which this genus belongs remained unsettled for a long time, but I have followed Dr. Trimen in putting it under *Olacineæ.*

This very singular genus is peculiar in having its endosperm perforated with holes to accommodate the internal spines of the endocarp.

XXII.—CELASTRINEÆ.

44. Euonymus Linn.

57. Euonymus sp. aff. indicus Heyne.
Naterikal, 4,000 ft., No. 38525.
Not quite matched at Calcutta.

XXIII.—RHAMNEÆ.

45. Ventilago Gaertn.

58. Ventilago madraspatana Gaertn.—F. B. I., i, p. 631.
Mundandurai, 700 ft., No. 39327.
Distr. Peninsular India, Lower Burma and Ceylon.

46. Zizyphus Juss.

59. Zizyphus Oenoplia Mill.—F. B. I., i, p. 634.
Naterikal road, below 1,000 ft., No. 38468; Naterikal, No. 38470.
Distr. Throughout India generally.

60. Zizyphus rugosa Lamk.—F. B. I., i, p. 636-637.
Naterikal 2,000 ft., No. 38,417; Naterikal road, 1,000 ft., No. 38482.
Distr. Tropical Himalaya, Eastern India, Peninsular India and Ceylon.

47. Gouania Linn.

61. Gouania microcarpa DC.—F. B. I., i, p. 643.
Naterikal to Sengalteri, 3,500 ft., No. 38630.
Distr. Southern Peninsular India, Pegu, Ceylon.

XXIV.—AMPELIDEÆ.

48. Vitis Linn.

62. Vitis tenuifolia W. & A.—F. B. I., i, p. 660.
Naterikal to Sengalteri, 3,500 ft., Nos. 38617, 38642.
Distr. Nearly throughout India.

63. Vitis quadrangularis Wall.—F. B. I., i, p. 645.
Naterikal road; below 1,000 ft., No. 38465.
Distr. Throughout India generally.

64. Vitis setosa Wall.—F. B. I., i, p. 654.
Tirukarungudi, No. 38303; Naterikal road, No. 38475.
Distr. Madras Presidency.

49. Leea Linn.

65. Leea sambucina Willd.—F. B. I., i, pp. 666-667.
Mundandurai to Kannikatti, 2,000 ft., No. 39397.
Distr. Throughout India generally.

XXV.—SAPINDACEÆ.

50. Cardiospermum Linn.

66. Cardiospermum canescens Wall.—F. B. I., i, p. 670.
Naterikal, 2,000 ft., No. 38433.
Distr. Upper Burma, South Peninsular India.

51. Allophylus Linn.

67. Allophylus Cobbe Bl.—F. B. I., i, p. 673.
Mundandurai, 700 ft., No. 39321.
Distr. Throughout generally the plains of India.

52. Sapindus Plum.

68. Sapindus trifoliatus Linn.—F. B. I., i, pp. 682-683.
Mundandurai, 700 ft., No. 39341.
Distr. South Peninsular India.—(The Soap-nut).

53. Nephelium Linn.

69. Nephelium Longana Camb.—F. B. I., i, pp. 688-689.
Nardkani shola, 2,000 ft., No. 38330.
Distr. Bengal, Pegu, Peninsular India and Ceylon.

54. Dodonæa Linn.

70. Dodonæa viscosa Linn.—F. B. I., i, pp. 697.
Tirukarungudi, Below 1,000 ft., No. 38490.
Distr. Throughout India generally.

XXVI.—ANACARDIACEÆ.

55. Mangifera Linn.

71. Mangifera indica Linn.—F. B. I., ii, pp. 13-14.
Naterikal, 3,000 ft., No. 38489.
Distr. Throughout India generally.

56. Buchanania Roxb.

72. Buchanania latifolia Roxb.—F. B. I., ii, p. 23.
Sengalteri to Kalkad, No. 39243.
Distr. Throughout India generally.

57. Spondias Linn.

73. Spondias mangifera Willd.—F. B. I., ii, p. 42.
Nardkhani 2,000 ft., No. 38329.
Distr. Throughout India generally.

CALYCIFLORÆ.

XXVII.—CONNARACEÆ.

58. Connarus Linn.

74. Connarus Wightii, Hook. f.—F. B. I., ii, p. 51.
Kannikatti, near bungalow, 2,200 ft., No. 39387.
Distr. North Kanara and probably Travancore.

XXVIII.—LEGUMINOSÆ.

59. Crotolaria Linn.

75. Crotalaria albida Heyne.—F. B. I., ii, p. 71.
Naterikal road, 3,000 ft., No. 38478; Sengalteri, near bungalow, 3,000 ft., No. 38700.
Distr. Throughout India generally.

76. Crotalaria calycina Schrank.—F. B. I., ii, pp. 72-73.
Sengalteri to Kalkad, No. 39236; Naterikal, No. 38394.
Distr. Throughout India.

77. Crotalaria prostrata Roxb.—F. B. I., ii, p. 67.
Naterikal, 2,000 ft., No. 38389.
Distr. Plains from Ganges to Ceylon.

78. Crotalaria verrucosa Linn.—F. B. I., ii, p. 77.
Naterikal, Nos. 38436, 38443.
Distr. Throughout India generally.

60. Indigofera Linn.

79. Indigofera aspalathoides Vahl.—F. B. I., ii, p. 94.
Tirukarungudi, No. 38319.
Distr. Plains of Southern Peninsular India and Ceylon.

80. Indigofera glandulosa Willd.—F. B. I., ii, p. 94.
Sengalteri to Kalkad, 3,000 ft., No. 39230.
Distr. Plains of S. W. India.

81. Indigofera pentaphylla Linn.—F. B. I., ii, p. 95.
Naterikal, No. 38390.
Distr. Throughout India generally.

82. Indigofera pulchella Roxb.—F. B. I., ii, p. 101.
Sengalteri to Kalkad, No. 39222.
Distr. Throughout India.

83. Indigofera tenuifolia Rottl.—F. B. I., ii, p. 95.
Naterikal, No. 38388.
Distr. South Peninsular India and Ceylon.

84. Indigofera tinctoria Linn.—F. B. I., ii, p. 99.
Sengalteri to Kalkad, No. 39238.
Distr. Cultivated. Baker in the Flora of British India says that it is doubtful whether it is truly wild.

61. Tephrosia Pers.

85. Tephrosia purpurea Pers. var. **pumila,** F. B. I., ii, p. 113.
Mundandurai, 700 ft., No. 39346.
Distr. Throughout India.

86. Tephrosia tinctoria Pers.—F. B. I., ii, p. 111.
Naterikal, No. 38416.
Distr. Southern Peninsular India and Ceylon.

87. Tephrosia villosa Pers.—F. B. I., ii, p. 113.
Naterikal road, 2,000 ft., No. 38426.
Distr. Plains of India.

62. Zornia Gmel.

88. Zornia diphylla Pers.—F. B. I., ii, p. 147.
Mundandurai, 700 ft., No. 39309.
Distr. Plains of India.

63. Pycnospora R. Br.

89. Pycnospora hedysaroides R. Br.—F. B. I., ii, p. 153.
Sengalteri to Kalkad, No. 39231.
Distr. Khasia, Lower Burma, Peninsular India and Ceylon.

64. Pseudarthria W. & A.

90. Pseudarthria viscida W. & A.—F. B. I., p. 154.
Sengalteri to Kalkad, No. 39237.
Distr. Central India, West and South India, Burma, Malay Archipelago.

65. Alysicarpus Neck.

91. Alysicarpus rugosus DC.—F. B. I., ii, p. 159.
Naterikal road, below 1,000 ft., No. 38467.
Distr. Himalayas to Ceylon and Burma.

66. **Desmodium** Desv.

92. **Desmodium gangeticum** DC.—F. B. I., ii, p. 168.
Sengalteri to Kalkad, No. 39232.
Distr. Throughout India.

93. **Desmodium latifolium** DC.—F. B. I., ii, pp. 168-169.
Naterikal, 4,000 ft., No. 38415 ; Naterikal road, 2,000 ft., No. 38477.
Distr. Throughout India.

94. **Desmodium polycarpum** DC.—F. B. I., ii, p. 171.
Naterikal to Sengalteri, 3,500 ft., No. 38596.
Distr. Throughout India.

95. **Desmodium Scalpe** DC.—F. B. I., ii, pp. 165-166.
Naterikal hill; 4,000 ft., No. 38514.
Distr. Hills of S. Peninsular India and Ceylon.

67. **Abrus** Linn.

96. **Abrus precatorius** Linn.—F. B. I., ii, p. 175.
Sengalteri to Kalkad, No. 39267.
Distr. Throughout India.

68. **Glycine** Linn.

97. **Glycine Javanica** Linn.—F. B. I., ii, p. 183.
Sengalteri to Kalkad, No. 39233.
Distr. Peninsular India and Ceylon.

69. **Teramnus** Sw.

98. **Teramnus labialis** spreng.—F. B. I., ii, p. 184.
Tirukarungudi, No. 38312.
Distr. Plains of India.

70. **Mucuna** Adans.

99. **Mucuna atropurpurea** DC.—F. B. I. ii, p. 186.
Sengalteri to Kalkad, No. 39278.
Distr. S. Peninsular India and Ceylon.

71. **Erythrina** Linn.

100. **Erythrina indica** Lamk.—F. B. I., ii, p. 188.
Mundandurai to Kannikatti, No. 39391.
Distr. Throughout India.

72. **Galactia** Br.

101. **Galactia tenuiflora** W. & A.—F. B. I., ii, p. 192.
Sengalteri, 3,000 ft., No. 38689.
Distr. Throughout India generally.

73. Canavalia DC.

102. Canavalia ensiformis DC. Var. **virosa**.—F. B. I., ii, p. 196 — C. virosa *W. & A.*

Naterikal at the foot of the hills, 1,000 ft., No. 38446 ; Papanasam to Mundandurai, No. 39295.

Distr. E. Himalaya to Ceylon.

Not a good sp.—but probably the wild form of the cultivated plant.

74. Phaseolus Linn.

103. *Phaseolus sublobatus Roxb. var. **grandiflora**.—F. B. I., ii, p. 203.

Naterikal to Sengalteri, 3,500 ft., No. 38608.

This variety was previously recorded from L. Burma and Malay Archipelago only. It is however new to this area.

104. Phaseolus trilobus Ait.—F. B. I., p. 201-202.

Sengalteri to Kalkad, No. 39235.

Distr. Throughout India generally.

75. Clitoria Linn.

105. Clitoria Ternatea Linn.—F. B. I., ii, p. 208.

Tirukarungudi, No. 38316.

Distr. Throughout India and Ceylon.

76. Dolichos Linn.

106. Dolichos biflorus Linn.—F. B. I., ii, p. 210.

Naterikal, 2,000 ft., No. 38430 ; Naterikal hill, 4,000 ft., No. 38504.

Distr. Throughout India.

107. Dolichos falcatus Klein.—F. B. I., ii, p. 211.

Mundandurai, 700 ft., Nos. 39347, 39311.

Distr. From Kumaon to Khasia, Western Peninsula and Ceylon.

77. Atylosia W. & A.

108. Atylosia scarabæoides Benth.—F. B. I., ii, p. 215.

Naterikal road, 2,000 ft., No. 38406.

Distr. Plains of India.

78. Dunbaria W. & A.

109. Dunbaria ferruginea W. & A.—F. B. I., ii, p. 217.

Naterikal, 3-4,000 ft., No. 38441.

Distr. Peninsular India and Ceylon.

79. **Rhynchosia** Lour.

110. **Rhynchossia cana** DC.—F. B. I., ii, p. 222.
Sengalteri to Kalkad, No. 39252.
Distr. Peninsular India and Ceylon.

111. **Rhynchosia rufescens** DC.—F. B. I., ii, p. 220.
Naterikal hill, 4,000 ft.; No. 38460;
Distr. Peninsular India and Ceylon, Khasia hills.

112. **Rhynchosia viscosa** DC.—F. B. I., ii, p. 225.
Papanasam to Mundandurai, No. 39286.
Distr. Peninsular India and Ceylon.

80. **Dalbergia** Linn. f.

113. * **Dalbergia coromandeliana** Prain—in Journ. Asiat. Soc. Beng. lxx., 2, 60 (1901).
Mundandurai, 700 ft., No. 39435.

This differs from Sir David Prain's description in the Annals of the Royal Botanic garden, Calcutta, x, p. 46, merely in its recurved cyme-branches being longer. Apart from this, I could see no other essential difference.

Distr. Shevagiri hills.
Not previously recorded from the Tinnevelly District.

114. **Dalbergia latifolia** Roxb.—F. B. I., ii, p. 231.
Nardkhani, 2,000 ft., No. 38347,
Distr. Sikkim, Behar and Peninsular India.

81. **Pterocarpus** Linn.

115. **Pterocarpus Marsupium** Roxb.—F. B. I., ii, p. 239.
Nardkhani, 2,000 ft., No. 38346; Naterikal, 4,000 ft., No. 38420.
Distr. Plains of the Western Peninsula and Ceylon.

116. **Pterocarpus sp. or Dialium sp.**
Nardkhani, 2,000 ft., No. 38343.

A rather peculiar tree with caudate-acuminate leaflets. Specimens are without flowers and fruits. Not matched in Herb. Calc.

82. **Derris** Lour.

117. **Derris scandens** Benth.—F. B. I., ii, p. 240.
Mundandurai, 700 ft., No. 39304.
Distr. Throughout India generally.

83. **Cassia** Linn.

118. **Cassia Absus** Linn.—F. B. I., ii, pp. 265-266.
Sengalteri to Kalkad, No. 39270.
Distr. Throughout India generally.

119. Cassia auriculata Linn.—F. B. I., ii, p. 263.
Naterikal road, below 1,000 ft., No. 38455; Mundandurai, 700 ft. No. 39300.
Distr. The Central Provinces, Peninsular India and Ceylon.

84. Bauhinia Linn.

120. Bauhinia malabarica Roxb.—F. B. I., ii, p. 277.
Mundandurai, 700 ft., No. 39326.
Distr. Throughout India generally.

121. Bauhinia tomentosa Linn.—F. B. I., ii, p. 275.
Sengalteri to Kalkad, No. 39272; Papanasam to Mundandurai, No. 39288; Naterikal, 4,000 ft., No. 38440.
Distr. Throughout India generally.

85. Dichrostachys DC.

122. Dichrostachys cinerea W. & A.—F. B. I., ii, p. 288.
Naterikal road, above 1,000 ft., No. 38431.
Distr. North-West Provinces, Western Peninsula and Ceylon.

86. Mimosa Linn.

123. Mimosa pudica Linn.—F. B. I., ii, p. 291.
Tirukarungudi, No. 38321.
Distr. Hotter parts of India. Abundant.

87. Acacia Willd.

124. Acacia Intsia Willd.—F. B. I., ii, p. 297.
Mundandurai, 700 ft., No. 39301.
Distr. Throughout India generally.

125. Acacia Latronum Willd.—F. B. I., ii, p. 296.
Tirukarungudi to Naterikal, below 1,000 ft., No. 38484.
Distr. S. W. Peninsular India.
This is, in all probability, a myrmecophilous plant.

126. Acacia pennata Willd.—F. B. I., ii, p. 297.
Naterikal, No. 38396.
Distr. Throughout India generally.

88. Albizzia Durazz.

127. Albizzia amara Boiv.—F. B. I., ii, p. 301.
Road near Tirukarungudi, 1,000 ft., No. 38466.
Distr. S. Peninsular India and Ceylon.

128. Albizzia odoratissima Benth.—F. B. I., ii. p. 299.
Nardkhani shola, 2,000 ft., No. 38327.
Distr. Throughout India generally.

89. Pithecolobium Mart.

129. Pithecolobium subcoriaceum Thw.—F. B. I., ii, p. 305.
Naterikal to Sengalteri, 3,500 ft., No. 38666.
Distr. S. Peninsular India : Anaimalai hills and Ceylon.

XXIX.—ROSACEÆ.

90. Rubus Linn.

130. Rubus ellipticus Smith.—F. B. I., ii, p. 336.
Naterikal, 3-4,000 ft., No. 38358.
Distr. Throughout India generally.

131. Rubus lasiocarpus Smith.—F. B. I., ii, p. 339.
Naterikal 3,000 ft., No. 38357.
Distr. Throughout India generally.

132. Rubus moluccanus Linn.—F. B. I., ii, p. 330.
Naterikal, 4,000 ft., No. 38541.
Distr. Throughout India generally.
Very common.

XXX.—CRASSULACEÆ.

91. Kalanchoe Adans.

133. Kalanchoe floribunda W. & A.—F. B. I., ii, pp. 414-415.
Naterikal, No. 38382.
Distr. Mountains of Peninsular India.
This was seen as a dense patch in only one place.

XXXI.—HALORAGEÆ.

92. Laurembergia Berg.

134. * Laurembergia hirsuta (W. & A.) Schindler in Das Pflanzenreich IV 225, p. 65.
Naterikal, along the banks of streams in water 4,000 ft., No. 38550.
Distr. S. Indian hills ; Nilgiri hills.
I have followed Schindler in adopting the name *Laurembergia* instead of *Serpicula*. In the Flora of British India, presumably two different species are included under Serpicula indica *Thw.*

XXXII.—COMBRETACEÆ.

93. Terminalia Linn.

135. Terminalia Chebula Retz.—F. B. I., ii, p. 446.
Sengalteri, near Bungalow, 3,000 ft., No. 38691.
Distr. Throughout India.

94. **Anogeissus** Wall.

136. Anogeissus latifolia Wall.—F. B. I., ii, p. 450.
Nardkhani, 2,000 ft., No. 38348 ; Naterikal, near coffee estate, 3,000 ft., No. 38438.

I may add as a diagnostic character to this species that there are nearly always two or more glands on the under surface of the leaf at about the centre of the lamina.

XXXIII.—MYRTACEÆ.

95. **Psidium** Linn.

137. Psidium Guyava Linn.—F. B. I., ii, p. 468.
Kannikatti, near Bungalow, 2,500 ft., No. 39388.
Distr. Probably planted.

96. **Myrtus** Tournef.

138. Myrtus communis Linn.—F. B. I., ii, p. 462 (name only).
Naterikal to Sengalteri, 3,500 ft., No. 38634.
Distr. A medicinal plant, probably grown, or here found as an escape.

97. **Eugenia** Linn.

139. Eugenia Jambolana Lamk.—F. B. I., ii, p. 499.
Nardkhani shola, 2,000 ft., No. 38335.
Distr. Throughout India generally.

XXXIV.—MELASTOMACEÆ.

98. **Osbeckia** Linn.

140. Osbeckia aspera Bl.—F. B. I., ii, p. 519.
Naterikal, 4,000 ft., No. 38539.
Distr. S. Peninsular India and Ceylon.

141. Osbeckia cupularis Don.—F. B. I., ii, p. 514.
Naterikal, 4,000 ft., No. 38520.
Distr. Mountains of Peninsular India and Ceylon.

142. Osbeckia octandra DC.—F. B. I., ii, p. 521.
Naterikal, 4,000 ft., No. 38517.
Distr. Travancore, Tinnevelly, Nilgiri hills and Ceylon.

143. Osbeckia Wightiana Benth.—F. B. I., ii, p. 519.
Sengalteri to Kalkad, No. 39257.
Distr. S. Peninsular Indian mountains.

144. Osbeckia zeylanica Willd.—F. B. I., ii, p. 516.
Mundandurai, 700 ft., No. 39340 ; Kannikatti, 1,700 ft., No. 39396.
Distr. Malabar and Ceylon.

99. Sonerila.

145. Sonerila grandiflora Wall.—F. B. I., ii, p. 535.
Naterikal, 4,000 ft., No. 38518; Naterikal to Sengalteri, 3,500 ft., No. 38616.

146. Sonerila sp. aff. travancorica Bedd.—F. B. I., ii, p. 534.
Naterikal, 3,500 ft., No. 38588; Naterikal to Sengalteri, 3,500 ft., No. 38612.

147. Sonerila sp. aff. versicolor Wt.—F. B. I., ii, p. 535.
Kannikatti, 2,500 ft., No. 39424.
The material in the Calcutta Herbarium is too inadequate for accurate identification of the species.

100. Memecylon Linn.

148. Memecylon terminale Dalz.—F. B. I., ii, pp. 558-559.
Naterikal to Sengalteri, 3,500 ft., No. 38662.
Distr. Southern mountains of the Peninsula.

XXXV.—LYTHRACEÆ.

101. Ammannia Linn.

149. Ammannia cordata W. & A.—F. B. I., ii, p. 570.
Mundandurai, 700 ft., Nos. 39299 and 39351.
Distr. Peninsular India and Ceylon.

150. Ammannia pentandra Roxb.—F. B. I., ii, p. 568.
Mundandurai, 700 ft., No. 39352.
Distr. Throughout Tropical India.

XXXVI.—ONAGRACEÆ.

102. Ludwigia Linn.

151. Ludwigia parviflora Roxb.—F. B. I., ii, p. 586.
Mundandurai, 700 ft., No. 39354.
Distr. Throughout India.

XXXVII.—SAMYDACEÆ.

103. Casearia Jacq.

152. Casearia esculenta Roxb.—F. B. I., ii, p. 592.
Sengalteri, near Bungalow, 3,000 ft., No. 38698.
Distr. S. Peninsular India, Ceylon and L. Burma.

104. **Homalium** Jacq.

153. Homalium travancoricum Bedd.—F. B. I., ii, p. 598.
Naterikal, above waterfall, 2,000 ft., No. 38421.
Distr. Endemic in Travancore and Tinnevelly hills.
There were no examples of this in the Calcutta Herbarium and I am indebted to Major Gage for kindly confirming my identification at Kew.

XXXVIII.—PASSIFLOREÆ.

105. **Passiflora.** Linn.

154. Passiflora Leschenaultii DC.—F. B. I., ii, p. 599.
Naterikal to Sengalteri, 3,500 ft., No. 38595.
Distr. Pulney hills, Nilgiri hills and Khasia.

106. **Modecca** Lamk.

155. Modecca palmata Lamk.—F. B. I., ii, p. 603.
Mundandurai, 700 ft., No. 39305.
Distr. S. Peninsular India and Ceylon.

XXXIX.—CUCURBITACEÆ.

107. **Trichosanthes** Linn.

156. Trichosanthes lobata Roxb.—F. B. I., ii, p. 610.
Naterikal to Sengalteri, 3,500 ft., No. 38593.
Distr. Peninsular India.

108. **Momordica** Linn.

157. Momordica dioica Roxb.—F. B. I., ii, p. 617.
Mundandurai, 700 ft., Nos. 39306, 39313.
Distr. Throughout India.

109. **Citrullus** Schrad.

158. Citrullus Colocynthis Schrad.—F. B. I., ii, p. 620.
Tirukarungudi, Nos. 38308, 38313.
Distr. Throughout India—often wild.

110. **Cephalandra** Schrad.

159. Cephalandra indica Naud.—F. B. I., ii, p. 621.
Tirukarungudi, Nos. 38305, 38306.
Papanasam to Mundandurai, No. 39283.
Distr. Throughout India.

111. Bryonia Linn.

160. Bryonia laciniosa Linn.—F. B. I., ii, pp. 622-623.
Naterikal, 4,000 ft., No. 38557.
Distr. Throughout India.

112. Zehneria Endl.

161. Zehneria Hookeriana Arn.—F. B. I., ii, p. 624.
Naterikal, 4,000 ft., No. 38555.
Distr. North Bengal, Peninsular India and Ceylon.

XL.—BEGONIACEÆ.

As the Calcutta material of this order is anything but complete, I sent the six numbers I collected to Major Gage at Kew for favour of determination. A list of the identifications is not yet available. There might in all probability be three or four species of *Begonia.*

113. Begonia.

XLI.—FICOIDEÆ.

114. Mollugo Linn.

162. Mollugo stricta Linn.—F. B. I., ii, p. 663.
Naterikal, 3,000 ft., No. 38401 ; Mundandurai No. 39318.
Distr. Throughout India.

XLII.—UMBELLIFERÆ.

115. Hydrocotyle Linn.

163. Hydrocotyle javanica Thunb.—F. B. I., ii, p. 667.
Naterikal to Sengalteri, 3,500 ft., No. 38590.
Distr. Nearly throughout India.

116. Bupleurum Linn.

164. Bupleurum mucronatum W. & A.—F. B. I., ii, p. 676.
Naterikal, 4,000 ft., No. 38496 ; Sengalteri, 3,000 ft., No. 39210.
Distr. S. Peninsular India and Ceylon mountains.

117. Pimpinella Linn.

165. Pimpinella Heyneana Wall.—F. B. I., ii, p. 682.
Sengalteri to Kalkad, No. 39240.
Distr. Peninsular India and Ceylon.

118. Heracleum Linn.

166. Heracleum Sprengelianum W. & A.—F. B. I., ii, p. 716.
Sengalteri, 3,500 ft., No. 38696.
Distr. S. Peninsular Indian hills.

XLIII.—CORNACEÆ.

119. Alangium Lamk.

167. Alangium Lamarckii Thw.—F. B. I., ii, p. 741.
Tirukarungudi, No. 38322.
Distr. Throughout India.
Very common round the village.

GAMOPETALÆ.

XLIV.—RUBIACEÆ.

120. Hymenodictyon Wall.

168. Hymenodictyon excelsum Wall.—F. B. I., iii, p. 35.
Papanasam to Mundandurai, No. 39280.
Distr. Dry hills throughout India generally.

121. Wendlandia Bartl.

169. Wendlandia Notoniana W. & A.—F. B. I., iii, p. 40.
Naterikal, No. 38583.
Distr. S. Peninsular Indian hills and Ceylon.

122. Neurocalyx Hook.

170. Neurocalyx Wightii Arn.—F. B. I., iii, p. 47.
Kannikatti, 2,500 ft., No. 39429.
Distr. S. Peninsular Indian hills and Ceylon.

123. Hedyotis Linn.

171. Hedyotis albo-nervia Bedd.—F. B. I., iii, p. 55.
Naterikal, 4,000 ft., Nos. 38523, 38535.
Distr. Tinnevelly and Travancore hills.

172. Hedyotis purpurascens Bedd.—F. B. I., iii, p. 50.
Sengalteri to Kalkad, No. 39258 ; Naterikal, 4,000 ft., No. 38521.
Distr. Tinnevelly and Travancore Mts.

173. Hedyotis viscida Bedd.—F. B. I., iii, p. 57.
Naterikal, 4,000 ft., Nos. 38355, 38373 ; Sengalteri, in beds of streams, 3,500 ft., Nos. 38628, 38693.
Distr. Tinnevelly hills.
The leaves appear to be extremely variable, from linear lanceolate to broadly-ovate.

124. **Oldenlandia** Linn.

174. Oldenlandia Heynei Br.—F. B. I., iii, p. 65.
Sengalteri, 3,000 ft., No. 39212; Papanasam to Mundandurai, No. 39284.
Distr. Throughout India except E. Himalaya.

175. Oldenlandia umbellata Linn.—F. B. I., iii, p. 66.
Naterikal, No. 38453.
Distr. Peninsular India and Ceylon.

125. **Anotis** DC.

176. Anotis Leschenaultiana W. & A.—F. B. I., iii, p. 72.
Naterikal, 4,000 ft., No. 38512.
Distr. Mountains of S. W. Peninsula.

126. **Ophiorrhiza** Linn.

177. Ophiorrhiza Mungos Linn.—F. B. I., iii, p. 77.
Naterikal to Sengalteri, 3,500 ft., No. 38597.
Distr. Throughout India generally.

178. Ophiorrhiza Roxburghiana Wight.—F. B. I., iii, p. 81.
Naterikal to Sengalteri, 3,500 ft., No. 38619.
Distr. Pulney hills.
An interesting extension of Geographical distribution.

127. **Mussaenda** Linn.

179. Mussaenda frondosa Linn.—var. F. B. I., iii, p. 89.
Naterikal, 4,000 ft., Nos. 38556, 38580; Mundandurai to Kannikatti, 2,000 ft., No. 39375.
Distr. Throughout India generally.

128. **Acranthera** Arn.

180. Acranthera grandiflora Bedd.—F. B. I., iii, p. 93.
Naterikal to Sengalteri, 3,500 ft., No. 38591.
Distr. Tinnevelly.

129. **Webera** Schreb.

181. Webera corymbosa Willd.—F. B. I., iii, p. 102.
Mundandurai, 700 ft., No. 39328.
Distr. Peninsular India and Ceylon.

130. **Randia** Linn.

182. Randia dumetorum Lamk.—F. B. I., iii, p. 110.
Tirukarangudi to Naterikal, below 1,000 ft., No. 38459.
Distr. Throughout India generally.

131. Knoxia Linn.

183. Knoxia Wightiana Wall.—F. B. I., iii, pp. 129-130.
Sengalteri, 3,000 ft., No. 39204.
Distr. Nilgiri hills.

132. Canthium Lamk.

184. Canthium umbellatum Wight—F. B. I., iii, pp. 132-133.
Nardkhani shola, 2,000 ft., No. 38326.
Distr. Peninsular India and Lower Burma.

133. Ixora Linn.

185. Ixora brachiata Roxb.—F. B. I., iii, p. 142.
Nardkhani shola, 2,000 ft., No. 38331.
Distr. Peninsular India, on the W. Ghats.

186. * Ixora undulata Roxb.—F. B. I., iii, p. 147.
Sengalteri, near bungalow, 3,000 ft., No. 38692.
Distr. E. Himalaya, Bengal, Bihar and Assam.
There exists in Herb. Calc. one fragmentary sheet of this species collected by Dr. Cleghorn in July 1853. It is curious that this was not recorded from South India since that date.

134. Pavetta Linn.

187. Pavetta indica Linn.—F. B. I., iii, p. 150.
Naterikal to Sengalteri, 3,500 ft., No. 38681.
Distr. Throughout India generally.

188. Pavettabreviflora DC.—F. B. I., iii, p. 151.
Naterikal to Sengalteri, 3,500 ft., No. 38673.
Distr. South Indian hills: Nilgiri, Travancore and Tinnevelly mountains.

135. Psychotria Linn.

189. Psychotria congesta W. & A.—F. B. I., iii, pp. 162.
Naterikal, 3,000-4,000 ft., Nos. 38381, 38632.
Distr. Nilgiri and Pulney hills.

190. Psychotria elongata Wight.—F. B. I., iii, pp. 163-164.
Naterikal, 4,000 ft., No. 38558.
Distr. Nilgiri hills, Ceylon.

191. Psychotria nudiflora W. & A.—F. B. I., iii, p. 175.
Kannikatti, 2,500 ft., No. 39402.
Distr. Tinnevelly hills.
Probably endemic here.

136. Chasalia Comms.

192. Chasalia curviflora Thw.—F. B. I., iii, pp. 176-177.
Naterikal, 4,000 ft. Nos. 38366, 38542; Kannikatti, 2,500 ft., No. 39420.
Distr. Throughout India generally.

137. Spermacoce Linn.

193. Spermacoce hispida Linn.—F. B. I., iii, pp. 200-201.
Tirukarungudi, Nos. 38301, 38495.
Mundandurai, 700 ft., No. 39336.
Distr. Throughout India generally.

194. Spermacoce stricta Linn. f.—F. B. I., iii, pp. 200.
Naterikal road, 3,000 ft., No. 38485.
Distr. Throughout India generally.

138. Rubia Linn.

195. Rubia cordifolia Linn.—F. B. I., iii, pp. 202.
Naterikal, 4,000 ft., No. 38530.
Distr. Throughout the hilly districts of India.

XLV.—COMPOSITÆ.

139. Centratherum Cass.

196. Centratherum molle Benth.—F. B. I., iii, p. 227.
Naterikal, No. 38584.
Distr. Southernmost part of the Peninsula.

140. Vernonia Schreb.

197. Vernonia cinerea Less.—F. B. I., iii, pp. 233-234.
Sengalteri, 3,000 ft., No. 39201.
Distr. Throughout India.

198. Vernonia divergens Benth.—F. B. I., iii, pp. 234-235.
Naterikal, 2,000 ft., No. 38391.
Distr. Behar, Central India, South India and Burma.

199. Vernonia setigera Arn.—F. B. I., iii, p. 235.
Naterikal, 4,000 ft., Nos. 38519, 38377, 38680.
Distr. Ceylon.

200. Vernonia sp.—aff. malabarica Hook. f.—F. B. I., iii, p. 230.
Naterikal, 4,000 ft., No. 38581.
A pretty-looking small composite. Occasional.

201. Vernonia travancorica Hook. f.—F. B. I., iii, p. 240.
Naterikal to Sengalteri, 3,500 ft., No. 38646.
Distr. Travancore and Tinnevelly.

141. **Elephantopus** Linn.

202. Elephantopus scaber Linn.—F. B. I., iii, p. 242.
Mundandurai to Kannikatti, 2,000 ft., No. 39394.
Distr. Throughout India generally.

142. **Adenostemma** Forst.

203. Adenostemma viscosum Forst.—F. B. I., iii, p. 242.
Naterikal, 4,000 ft., Nos. 38376, 38569, 38592.
Distr. Throughout India generally.

143. **Dichrocephala** DC.

204. Dichrocephala latifolia DC.—F. B. I., iii, p. 245.
Naterikal, 3,500 ft., No. 38620.
Distr. Throughout India generally.

144. **Blumea** DC.

205. Blumea Wightiana DC.—F. B. I., iii, p. 261.
Kannikatti, 2,500 ft., No. 39415.
Distr. Throughout India.

145. **Blepharispermum** Wight.

206. Blepharispermum petiolare DC.—F. B. I., iii, p. 276.
Naterikal, 4,000 ft., No. 38469.
Distr. Tinnevelly District and Ceylon.

146. **Anaphalis** DC.

207. Anaphalis oblonga DC.—F. B. I., iii, p. 283.
Naterikal, 4,000 ft., No. 38546.
Distr. Mountains of the extreme south of India and Ceylon.

208. Anaphalis Wightiana DC.—F. B. I., iii, p. 286.
Naterikal, No. 38397.
Distr. Nilgiri hills.

147. **Gnaphalium** Linn.

209. Gnaphalium indicum Linn.—F. B. I., iii, p. 289.
Naterikal, 4,000 ft., No. 38364.
Distr. Throughout India, on the plains generally.

148. **Helichrysum** Gaertn.

210. Helichrysum buddleioides DC.—F. B. I., iii, p. 290.
Naterikal, 3-4000 ft., No. 38362.
Distr. Mountains of the Western Peninsula and Ceylon.

149. Vicoa Cass.

211. Vicoa auriculata Cass.—F. B. I., iii, p. 297.
Naterikal road, 2,000 ft., No. 38472.
Distr. Throughout India.

150. Blainvillea Cass.

212. Blainvillea latifolia DC.—F. B. I., iii, p. 305.
Papanasam to Mundandurai, No. 39296.
Distr. Western India, Peninsular India and Ceylon.

151. Spilanthes Linn.

213. Spilanthes Acmella Linn.—F. B. I., iii, p. 307.
Naterikal, Nos. 38398, 38499.
Distr. Throughout India.

152. Bidens Linn.

214. Bidens pilosa Linn.—F. B. I., iii, p. 309.
Naterikal, 2,000 ft., No. 38411.
Distr. Throughout India.

153. Emilia Cass.

215. Emilia sonchifolia DC.—F. B. I., iii, p. 336.
Naterikal, 4,000 ft., No. 38515 ; Sengalteri, 2,500 ft., No. 39249.
Distr. Common throughout India.

154. Senecio Linn.

216. Senecio (Synotis) calcadensis Ramaswami, sp. nov.

Species Senecioni Buimaliæ *Ham*, proxima ; capitula campanulata, diametro 2·5 cm., in corymbos 1-2-3 ; Phyllaria 2-seriata, 24 ; Achenium 5-6 striatum, puberulum.

Caulis fruticosus, ramosus, scandens, volubilis lanuginosus. *Folia* alterna, longepetiolata ; petiolus 3·8 cm. longus, albo-lanuginosus ; lamina cordato-ovata 5·08 cm. -7·62 cm. longa, 3·81 cm. to 6·35 cm. lata, apice acuminata, margine sinuato-dentata, membranacea, supra glabra, subtus lanuginosa. *Corymbœ* axillariæ et terminaliæ, bracteatæ, longe pedunculatæ. *Pedunculi* 6·35 cm. -10·16 cm. longi. *Bracteœ* ovatæ, acutæ. *Bracteolœ* 3-4, linearæ, lanuginosæ. *Capitula*, 18·9 mm. longa. 14·7 mm lata, pluriflora. *Phyllaria* 2-seriata, exteriora 10-12, 6·3 mm. longa, lineare-acuta, extus lanuginosa, interiora 10-12, erecta, 8·5 mm. longa, rigida, lineare-oblonga. *Ligulœ* 8·5 mm. longæ, 2-3 dentatæ ; floris tubularis, 10·5 mm. longis, dentes 5. *Antherœ* basi longius caudatæ. *Achenium* 4·2 mm. longum, 0·8 latum, 5-6 striatum, anguste oblongum. *Pappum* album, 8·5 mm. longum, minute barbellatum,

A profuse climber, on tall trees in mid forest. *Branches and inflorescence* zigzag, grooved, cottony. *Leaves* alternate, long petiolate (but petiole shorter than the peduncle, $1\frac{1}{2}$ in. long) ovate, 2 in. to 3 in. long, $1\frac{1}{2}$ in. to $2\frac{1}{2}$ in. broad, shallowly cordate, acuminate, sinuate-toothed, 5-7 nerved from the base, membranous, glabrous above, cottony beneath. *Corymbs* axillary and terminal, long pedunculate, bracteate, peduncle $2\frac{1}{2}$ in. to 4 in. long. *Heads* bracteolate, many flowered, $\frac{9}{12}$ inch long, $\frac{7}{12}$ in. broad. *Involucral bracts* 2-seriate, outer 10-12, $\frac{1}{4}$ in. long, thin, herbaceous with recurved tips, linear acute, cottony beneath, inner 10-12, erect, $\frac{1}{3}$ in. long, rigid, linear oblong, very acute, with a thickened mesial band and thin glabrous borders. *Ligules* few, $\frac{1}{3}$ in. long, pink. Corolla tubular, widened towards the top, $\frac{5}{12}$ inch long, teeth acute, with recurved tips. *Anthers* distinctly tailed, tail barren. *Achenes* $\frac{1}{6}$ in. compressed, 5-6 ribbed, ribs sparsely hairy. *Pappus* $\frac{1}{3}$ in. long, white, minutely barbellate.

At an elevation of 2,500 feet in the shola forest on the Calcad hills, No. 39250, *Hooper and Ramaswami.* [PLATE I.]

A very graceful climber, found in the middle of shola forest in dense shade. This differs from S. Buimalia *Ham.* principally in the 2-3 flowered corymbs, the larger heads and in the number and size of the involucral bracts.

155. **Notonia** DC.

217. Notonia grandiflora DC.—F. B. I., iii, p. 337.
Tirukarungudi, No. 38310.
Distr. South-West Peninsula and Ceylon.

218. *Notonia grandiflora DC. **major**, var. nov.

Differs from Notonia grandiflora DC. in its much larger size, in its leaves being 7-9 in. by 4-6 in. and in its profusely branched corymbs.

A shrub, 5-7 ft. high, branches long and very stout. Leaves 7-9 in. long 4-6 in.broad, corymbs profusely branched. Achenes $\frac{1}{3}$ in. long.
Sengalteri, 3,500 ft., No. 38695.

156. **Sonchus** Linn.

219. Sonchus oleraceus Linn.—F. B. I., iii, p. 413.
Naterikal, 4,000 ft., No. 38363 ; Kannikatti 2,500 ft., No. 39417.
Distr. Throughout India.

XLVI.—CAMPANULACEÆ.

157. **Lobelia** Linn.

220. Lobelia nicotianæfolia Heyne.—F. B. I., iii, p. 427.
Naterikal, 4,000 ft., Nos. 38528, 38618.
Distr. Western Peninsula and Ceylon.

221. Lobelia trigona Roxb.—F. B. I., iii, p. 423.
Naterikal road, 2,000 ft., No. 38476.
Distr. Deccan, Ceylon, Assam, Bengal and Burma.

158. Campanula Linn.

222. *Campanula canescens Wall.—F. B. I., iii, p. 439.
Sengalteri to Kalkad, No. 39239.
Distr. Northern India, Upper Burma, Ceylon.
A new record for Southern India.

XLVII.—PLUMBAGINEÆ.

159. Plumbago Linn.

223. Plumbago zeylanica Linn.—F. B. I., iii, pp. 480-481.
Sengalteri to Kalkad, No. 39268.
Distr. Throughout India.

XLVIII.—MYRSINEÆ.

160. Maesa Forsk.

224. Maesa indica Wall.—F. B. I., iii, p. 509.
Naterikal road, 2000-3000 ft., No. 38360.
Distr. Throughout India.

161. Embelia Burm.

225. Embelia Ribes Burm.—F. B. I., iii, p. 513.
Mundandurai to Kannikatti, 2-2,500 ft., No. 39371.
Distr. Throughout India.

162. Ardisia Swartz.

226. Ardisia pauciflora Heyne.—F. B. I., iii, p. 529.
Naterikal, 4,000 ft., Nos. 38568, 38645.
Distr. Mountains of South India and Ceylon.

227. Ardisia sp.
Kannikatti, 2,500 ft., No. 39406.
Not matched at Calcutta.

XLIX.—SAPOTACEÆ.

163. Dichopsis Thw.

228. Dichopsis elliptica Benth.—F. B. I., iii, p. 542.
Kannikatti, 2,500 ft., No. 39432.
Distr. Peninsular India, Western Ghats. (The Indian Gutta-Percha.)

L.—EBENACEÆ.

164. **Maba** T. R. & G. Forst.

229. Maba buxifolia Pers.—F. B. I., iii, p. 551.
Nardkhani shola, 2,000 ft., No. 38345.
Distr. Southern Peninsular India, Ceylon, also Lower Burma and Malay Peninsula.

165. **Diospyros** Linn.

230. *Diospyros Barberi Ramas. in Journ. Asiat. Soc. Beng. X, pp. 47-49.
Kannikatti, towards Agastiyamalai, 2650 ft., No. 39438.
Distr. Western Tinnevelly hills.

231. Diospyros foliolosa Wall.—F. B. I., iii, pp. 556-557.
Nardkhani shola, 2,000 ft., No. 38324.
Distr. Tinnevelly hills.

232. Diospyros oocarpa Thw.—F. B., I., iii, p. 560.
Kannikatti, 2500 ft., No. 39430.
Distr. North Canara, Travancore, and Ceylon.

233. Diospyros tomentosa Roxb.—F. B. I., iii, p. 564.
Mundandurai, 700 ft., No. 39324.
Distr. Bengal, Chota Nagpur, South-West Peninsular India.
Nearly all the leaves of this tree from which we collected our specimens, were attacked by a fungus causing dark brown patches on the leaves. This fungus has since been kindly determined for me by Dr. E. J. Butler, of the Agricultural Research Institute, Pusa, as *Æcidium rhytismoideum Berk.*

LI.—STYRACEÆ.

166. **Symplocos** Linn.

234. Symplocos acuminata Bedd.—F. B. I., iii, p. 583.
Naterikal to Sengalteri, 3,500 ft., No. 38613.
Distr. South West Peninsular India, chiefly Malabar.

235. Symplocos sp. aff. cuneata Thw.—F. B. I., iii, pp. 584-585.
Naterikal, Nos. 38374, 38380.
Distr. Ceylon.
Not matched exactly at Calcutta ; specimens are imperfect.

236. Symplocos spicata Roxb. **var. laurina**.—F. B. I., iii, p. 573
Sengalteri, 3,000 ft., Nos. 38690, 39259.
Distr. West Deccan Peninsula and Ceylon.

237. Symplocos sp.
Naterikal, 4,000 ft., No. 38579.
Our material is incomplete. Not matched at Calcutta.

LII.—OLEACEÆ.

167. Jasminum Linn.

238. **Jasminum auriculatum** Vahl.—F. B. I., iii, p. 600.
Naterikal, No. 38445.
Distr. Peninsular India and Ceylon.

239. **Jasminum calophyllum** Wall.—F. B. I., iii, p. 602.
Naterikal, 4,000 ft., No. 38383.
Distr. Southernmost part of the Peninsula.

240. **Jasminum flexile** Vahl.—F. B. I., iii, p. 601.
Mundandurai to Kannikatti, 1,000-2,000 ft., No. 39364.
Distr. Deccan Peninsula and Ceylon.

241. **Jasminum Rottlerianum** Wall.—F. B. I., iii, p. 593.
Naterikal, No. 38400.
Distr. South Deccan Peninsula.

168. Linociera Swartz.

242. **Linociera purpurea** Vahl. var. **dichotoma** Wall. Cat. (Sp.).—F. B. I., iii, p. 608.

Mundandurai, 700 ft., No. 39331; Naterikal, 4,000 ft., No. 38413; Nardkhani, 2,000 ft., No. 38325.

Distr. Ceylon.

I am inclined to take these as the var. *dichotoma* although the leaves are not subacute at both ends but either very obtuse or rounded at their tips. The nearly glabrous, lax, panicle is alone sufficient to put this down to be the same as Wallich's species *Linociera dichotoma.*

LIII.—APOCYNACEÆ.

169. Hunteria Roxb.

243. **Hunteria corymbosa** Roxb.—F. B. I., iii, p. 637.
Nardkhani, 2,000 ft., No. 38332.
Distr. South Peninsular India, especially Tinnevelly hills, Lower Burma, Ceylon.

170. Alstonia Br.

244. **Alstonia venenatus** Brown.—F. B. I., iii, pp. 642.
Mundandurai to Kannikatti, 2,000 ft., No. 39372.
Distr. Hills of the extreme south of the Peninsula.

171. Tabernæmontana Linn.

245. **Tabernæmontana coronaria** Br.—F. B. I., iii, pp. 646-647.
Kannikatti, 2,500 ft., No. 39408.
Distr. Throughout India.

LIV.—ASCLEPIADEÆ.

172. Cryptolepis Br.

246. Cryptolepis grandiflora Wight.—F. B. I., iv, pp. 5-6.
Papanasam to Mundandurai, No. 39291.
Distr. Mountains of the Madras Presidency.

173. Dæmia Br.

247. Dæmia extensa Br.—F. B. I., iv, p. 20.
Sengalteri to Kalkad, No. 39274.
Distr. Throughout India.

174. Gymnema Br.

248. Gymnema sylvestre Br.—F. B. I., iv, p. 29.
Tirukarungudi, No. 38349.
Distr. West Peninsular India.

175. Tylophora Br.

249. Tylophora asthmatica W. & A.—F. B. I., iv, pp. 44-45.
Naterikal road, 1,000 ft., No. 38483.
Distr. Throughout India generally, but not in the Himalayas.

250. Tylophora pauciflora W. & A.—F. B. I., iv, p. 41.
Tirukarungudi, No. 38304.
Distr. South Peninsular India and Ceylon.

176. Dregea E. Meyer.

251. Dregea volubilis Benth.—F. B. I., iv, p. 46.
Sengalteri to Kalkad, No. 39266.
Distr. Bengal, Assam, Peninsular India, Ceylon.

177. Hoya Br.

252. Hoya pauciflora Wight.—F. B. I., iv, p. 56.
Naterikal to Sengalteri, 3,500 ft., No. 38677.
Distr. Travancore, Cochin, Tinnevelly and Ceylon.

LV.—LOGANIACEÆ.

178. Fagræa Thunb.

253. Fagræa obovata Wall.—F. B. I., iv, p. 83.
Mundandurai to Kannikatti, 2,300 ft., No. 39356.
Distr. Peninsular India, Ceylon, Khasia, Burma and Malay Peninsula.

LVI.—GENTIANACEÆ.

179. Canscora Lamk.

254. Canscora sessiliflora R. & S.—F. B. I., iv, p. 104.
Mundandurai, 700 ft., No. 39312.
Distr. South Peninsular India, Ceylon.
The height of this plant surely exceeds that given by C. B. Clarke. This plant is a foot or more high and appears more robust.

LVII.—BORAGINEÆ.

180. Ehretia Linn.

255. Ehretia buxifolia Roxb.—F. B. I., iv, pp. 144.
Mundandurai, 700 ft., No. 39319.
Distr. Peninsular India.

256. Ehretia lævis Roxb.?—F. B. I., iv, pp. 141-142.
Papanasam to Mundandurai, No. 39289.
Distr. Throughout India.

181. Cynoglossum Linn.

257. Cynoglossum furcatum Wall.—F. B. I., iv, pp. 155-156.
Naterikal, 3,000 ft., No. 38368.
Distr. Throughout India and Ceylon.

LVIII.—CONVOLVULACEÆ.

182. Rivea Chois.

258. *Rivea hypocrateriformis Chois.—F. B. I., iv, pp. 184.
Naterikal, 4,000 ft., No. 38449.
Distr. Peninsular India—but previously supposed to extend only up to Mysore.

183. Argyreia Lour.

259. Argyreia bracteata Chois.—F. B. I., iv, p. 188.
Sengalteri to Kalkad, No. 39218.
Distr. Peninsular India.

260. *Argyreia superbiens Cam.
Mundandurai, 700 ft,, No. 39316.

184. Ipomœa Linn.

261. Ipomœa barlerioides Benth.—F. B. I., iv, p. 201.
Sengalteri to Kalkad, No. 39241.
Distr. North-Western India, Oudh, Chota-Nagpur and Peninsular India.

262. Ipomœa hederacea Jacq.—F. B. I., iv, p. 199.
Papanasam to Mundandurai, No. 39293.
Distr. Throughout India.

263. Ipomœa obscura Ker.—F. B. I., iv, p. 207.
Sengalteri to Kalkad, No. 39262.
Distr. Throughout India and Ceylon.

264. *Ipomœa pilosa Sw.—F. B. I., iv, p. 213.
Papanasam to Mundandurai, No. 39285.
Distr. Western Himalaya, and Upper Gangetic plain.
New to this area.

265. Ipomœa staphylina R. & S.—F. B. I., iv, p. 210.
Tirukarungudi, No. 38302.
Distr. South Peninsular India, Assam and Penang.

266. Ipomœa tridentata Roth.—F. B. I., iv, p. 205.
Naterikal, No. 38502.
Distr. Peninsular India and Ceylon.

185. Evolvulus Linn.

267. Evolvulus alsinoides Linn.—F. B. I., iv, pp. 220-221.
Mundandurai, 700 ft., No. 39338.
Distr. Throughout India and Ceylon.

LIX.—SOLANACEÆ.

186. Solanum Linn.

268. Solanum bigeminatum Nees.—F. B. I., iv, p. 231.
Naterikal, 4,000 ft., No. 38578.
Distr. Travancore, Malabar Ghats.

269. Solanum giganteum Jacq.—F. B. I., iv, p. 233.
Naterikal, No. 38378.
Distr. Southernmost mountains of the Peninsula and Ceylon.

270. Solanum indicum Linn.—F. B. I., iv, pp. 234-235.
Naterikal to Sengalteri, 3,500 ft., No. 38664.
Distr. Throughout Tropical India.

271. Solanum læve Dunal.—F. B. I., iv, p. 231.
Naterikal to Sengalteri, 3,500 ft., No. 38624.
Distr. Nilgiri hills and North Travancore hills.

272. Solanum nigrum Linn.—F. B. I., iv, p. 229.
Kannikatti, 2,500 ft., No. 39413.
Distr. Throughout India and Ceylon.

273. Solanum pubescens Willd.—F. B. I., iv, p. 230.
Naterikal, No. 38447.
Distr. Deccan Peninsula and Ceylon.

274. **Solanum torvum** Swartz.—F. B. I., iv, p. 234.
Kannikatti, 2,500 ft., No. 39404.
Distr. Throughout India.

275. **Solanum vagum** Heyne.—F. B. I., iv, p. 230.
Sengalteri to Kalkad, No. 39248.
Distr. South Peninsular India.

276. **Solanum xanthocarpum** Schrad.—F. B. I., iv, p. 236.
Tirukarungudi, No. 38309.
Distr. Throughout India.

LX.—SCROPHULARINEÆ.

187. Limnophila Br.

277. **Limnophila gratioloides** R. Br.—F. B. I., iv, p. 271.
Mundandurai, 700 ft., No. 39353.
Distr. Throughout India.

188. Torenia Linn.

278. **Torenia asiatica** Linn.—F. B. I., iv, 277.
Naterikal to Sengalteri, 3,500 ft. No. 38607.
Distr. Nilgiri hills, Ceylon, also Lower Burma.

189. Sopubia Hamilt.

279. **Sopubia delphinifolia** G. Don.—F. B. I., iv, p. 302.
Sengalteri, 2,500 ft., No. 39205 ; Mundandurai No. 39329.
Distr. Behar, Peninsular India and Ceylon.

LXI.—LENTIBULARIEÆ.

190. Utricularia Linn.

280. **Utricularia** sp.
Naterikal, 4,000 ft., No. 38510.
This *Utricularia* was found floating in running water and I am unable to identify the species in the absence of flowers.

LXII.—GESNERACEÆ.

191. Didymocarpus Wall.

281. **Didymocarpus Rottleriana** Wall. Var. **Wightii**.—F. B. I., iv, p. 353.
Sengalteri to Kalkad, No. 39219.
Distr. Tinnevelly hills.

LXIII.—BIGNONIACEÆ.

192. Stereospermum Cham.

282. Stereospermum chelonoides DC.—F. B. I., iv, p. 382.
Nardkhani, 2,000 ft., No. 38344 ; Mundandurai, No. 39297.
Distr. Throughout India.

LXIV.—PEDALINEÆ.

193. Sesamum Linn.

283. Sesamum indicum DC.—F. B. I., iv, p. 387.
Tirukarungudi, No. 39437.
Distr. Cultivated generally throughout India for its oil.

LXV.—ACANTHACEÆ.

194. Thunbergia Linn. f.

284. Thunbergia fragrans Roxb.—F. B. I., iv, 390.
Naterikal, 4,000 ft., Nos. 38356 and 38522.
Distr. Throughout India.

195. Hygrophila Br.

285. Hygrophila spinosa T. And.—F. B. I., iv, p. 408.
Tirukarungudi, No. 38318.
Distr. Throughout India.
Common in all the marshes.

196. Stenosiphonium Nees.

286. Stenosiphonium Russellianum Nees.—F. B. I., iv, p. 427.
Naterikal, 2000-4,000 ft., No. 38423 ; Sengalteri to Kalkad, 2,000 ft., No. 39256.
Distr. South Peninsular India, on hills and Ceylon.

287. Stenosiphonium Russellianum Nees. var. **subsericea** T. Anders.—F. B. I., iv, p. 427-428.
Papanasam to Mundandurai, No. 39292.
Distr. Tinnevelly hills.

197. Strobilanthes Bl.

288. Strobilanthes pulneyensis Clarke.—F. B. I., iv, p. 438.
Naterikal, 4,000 ft., No. 38532.
Distr. Pulney and Anaimalai hills.

198. **Blepharis** Juss.

289. **Blepharis bœrhaavifolia** Pers.—F. B. I., iv, p. 478.
Naterikal road, No. 38486.
Distr. Peninsular India, also Burma.

199. **Barleria** Linn.

290. ***Barleria cristata** Linn.—F. B. I., iv, p. 488.
Sengalteri to Kalkad, No. 39216.
Distr. Sub-Tropical India, but known previously not to occur south of Nilgiris.

291. **Barleria cuspidata** Heyne.—F. B. I., iv, p. 483.
Tirukarungudi, No. 38320.
Distr. Mysore, Coimbatore, South West Peninsula.
This is the small leaved form.

292. **Barleria nitida** Nees.—F. B. I., iv, p. 490.
Naterikal, No. 38464.
Distr. Tinnevelly hills.

293. **Barleria Prionitis** Linn.—F. B. I., iv, p. 482.
Mundandurai, 700 ft., No. 39325.
Distr. Throughout India, sparingly distributed.

200. **Crossandra** Salisb.

294. **Crossandra undulæfolia** Salisb.—F. B. I., iv, p. 492.
Naterikal, 4,000 ft., No. 38439.
Distr. South West Peninsula and Ceylon.
(Glabrous form).

295. ***Crossandra undulæfolia** Salisb.—forma nova.
Naterikal, 4,000 ft., No. 38427.
(Pubescent form.)

I recognise this to be a distinct form of this species. The frequent form is the long-petioled, lanceolate-leaved, completely glabrous one with very long bracteoles. This is short-petioled, ovate-leaved, pubescent with shorter bracts. Consequently, I have indicated the species twice. In view of the numerous specific names already attached to various forms of this species, I think it better to indicate this plant as a new form only.

201. **Asystasia** Bl.

296. **Asystasia chelonoides** Nees.—F. B. I., iv, p. 493.
Mundandurai to Kannikatti, 2,000 ft., Nos. 39358, 39412.
Distr. Travancore, Tinnevelly hills and Ceylon.

297. **Asystasia coromandeliana** Nees.—F. B. I., iv, p. 493.
Sengalteri to Kalkad, No. 39260.
Distr. Peninsular India and Ceylon.

202. **Andrographis** Wall.

298. Andrographis elongata T. And.—F. B. I., iv, p. 502.
Mundandurai, 700 ft., No. 39315.
Distr. Tinnevelly hills.

299. Andrographis viscosula Nees.—F. B. I., iv, p. 504.
Naterikal, 4,000 ft., Nos. 38513, 38631.
Distr. Tinnevelly hills.

203. **Gymnostachyum** Nees.

300. Gymnostachyum canescens T. And—F. B. I., iv, p. 509.
Mundandurai to Kannikatti, 2,500 ft., No. 39359.
Distr. South West Peninsular India, Tinnevelly hills.

204. **Diotacanthus** Benth.

301. Diotacanthus albiflorus Benth.—F. B. I., iv, p. 515.
Naterikal to Sengalteri, 3,500 ft., No. 38599.
Distr. South Tinnevelly hills.

302. Diotacanthus grandis Benth.—F. B. I., iv, p. 515.
Naterikal, 4,000 ft., No. 38587.
Distr. South Tinnevelly and South Travancore hills.

205. **Justicia** Linn.

303. Justicia glauca Rottl.—F. B. I., iv, p. 529.
Naterikal road, 2,500 ft., No. 38491.
Distr. South Peninsular India.

304. Justicia procumbens Linn.—F. B. I., iv, p. 539.
Sengalteri, 3000 ft., No. 39209.
Distr. South Peninsular India and Ceylon.

305. Justicia simplex Don. F. B. I., iv, p. 539.
Naterikal road, 2,000 ft., No. 38500.
Distr. Central and South India, also North-West India.

206. **Rungia** Nees.

306. Rungia Wightiana Nees.—F. B. I., iv, p. 546.
Naterikal, 4,000 ft., No. 38372.
Distr. Tinnevelly hills.

207. **Dicliptera** Juss.

307. Dicliptera cuneata Nees.—F. B. I., iv, p. 552.
Naterikal road, 1,000—2,000 ft., No. 38481.
Distr. Extreme south of the Madras Presidency, Tinnevelly hills.

LXVI.—VERBENACEÆ.

208. Stachytarpheta Vahl.

308. Stachytarpheta indica Vahl.—F. B. I., iv, p. 564.
Naterikal to Sengalteri, 3,500 ft., No. 38622.
Distr. Throughout India generally.

209. Callicarpa Linn.

309. Callicarpa lanata Linn.—F. B. I., iv, p. 567.
Naterikal, 4,000 ft., No. 38409.
Distr. Peninsular India and Ceylon.

210. Tectona Linn. f.

310. Tectona grandis Linn. f.—F. B. I., iv, pp. 570-571.
Nardkhani, 2,000 ft., No. 38338; Naterikal, No. 38444.
Distr. Peninsular India, Central India and Burma.

211. Gmelina Linn.

311. Gmelina asiatica Linn.—F. B. I., iv, p. 582.
Naterikal, 3,000 ft., No. 38429; Mundandurai, 700 ft., No. 39303.
Distr. South Peninsular India and Ceylon.

212. Vitex Linn.

312. Vitex altissima Linn. f.—F. B. I., iv, p. 584.
Nardkhani, 2,000 ft., No. 38334.
Distr. South-West Peninsular India.

213. Clerodendron Linn.

313. Clerodendron infortunatum Gærtn.—F. B. I., iv, pp. 594-595.
Sengalteri to Kalkad, No. 39251.
Distr. Throughout India.

LXVII.—LABIATÆ.

214. Ocimum Linn.

314. Ocimum adscendens Willd.—F. B. I., iv, p. 609.
Sengalteri to Kalkad, No. 39263.
Distr. Central and Peninsular India.

315. Ocimum gratissimum Linn.—F. B. I., iv, p. 608.
Naterikal road, 1,500 ft., No. 38422.
Distr. Bengal, Burma, Peninsular India.

316. Ocimum sanctum Linn.—F. B. I., iv, p. 609.
Naterikal road, 3,000 ft., No. 38487.
Distr. Throughout India generally.

215. Geniosporum Wall.

317. Geniosporum prostratum Benth.—F. B. I., iv, p. 610.
Mundandurai, 700 ft., No. 39307.
Distr. South Peninsular India and Ceylon.

216. Orthosiphon Benth.

318. Orthosiphon comosus Wight mss.—F. B. I., iv, p. 615.
Naterikal 3,000 ft., No. 38387.

I add a complete description of this plant as this is an imperfectly known species and Wight's description was based on imperfect material.

An erect shrub, 3-5 feet high, tomentose. *Stem* terete, with multicellular shining glandular hairs. *Branches* usually opposite. *Leaves* crowded to wards the inflorescences, subsessile, obovate, cuneate, crenato-serrate, with shining hairs on both surfaces. *Racemes* terminal, very long, rachis stout, somewhat 4-angled, verticillasters laxly arranged, 6-flowered. *Bracts* rose-coloured, upper ones larger, foliaceous, obovate, 3-nerved, nearly entire, glandular, concealing the flower buds and deciduous.

Calyx $\frac{1}{2}$ in. erect but deflexed when fruiting, upper lip broad, entire, concave at first and convex when fruiting, lower lip with 4 subulate teeth.—*Corolla* $1\frac{1}{2}$ in.-2 in. long, pubescent without, tube long, slender, inflexed towards the tip. Upper lip slightly larger than the lower, 3 lobed, mid-lobe very slightly emarginate, lower lip entire, concave.

Stamens 4 free, declinate.

Disc gibbous. *Style* filiform, *Stigma* clavate, *Nutlets* ovoid, smooth.

Distr. Probably found only in the Tinnevelly hills.

319. Orthosiphon glabratus Benth.—F. B. I., iv, 614.
Sengalteri to Kalkad, No. 39247.
Distr. South Peninsular India and Ceylon.

320. Orthosiphon tomentosus Benth.—F. B. I., iv, p. 613.
Sengalteri to Kalkad, No. 39245 ; Mundandurai, 700 ft., No. 39342.
Distr. South Peninsular India and Ceylon.

217. Plectranthus L'Herit.

321. Plectranthus menthoides Benth.—F. B. I., iv, p. 620.
Naterikal to Sengalteri, 3,500 ft., No. 38615.
Distr. South Peninsular India and Ceylon.

322. *Plectranthus nigrescens Benth.—F. B. I., iv, p. 617.
Naterikal to Sengalteri, 3,500 ft., No. 38626.
Distr. Ceylon. A new record for South India.

323. Plectranthus Stocksii Hook. f.—F. B. I., iv, p. 618.
Naterikal to Sengalteri, 3,500 ft., No. 38669.
Distr. South Peninsular India.

324. Plectranthus Walkeri Arn.—F. B. I. iv, p. 617.
Naterikal to Sengalteri, 3,500 ft., Nos. 38627, 38679.
Distr. Tinnevelly hills, Ceylon.

I have some difficulty in taking this to be absolutely correct as the cymes are not hoary and the leaves are not puberulous on the nerves.

218. Coleus Lour.

325. Coleus barbatus Benth.—F. B. I., iv, p. 625.
Naterikal, 4,000 ft., No. 38567
Distr. Peninsular India and Ceylon.

326. Coleus parviflorus Benth.—F. B. I., iv, p. 625.
Kannikatti, 2,500 ft., No. 39416.
Distr. Travancore and Tinnevelly.

This is probably synonymous with the *Coleus tuberosus* of Bentham and *Plectranthus tuberosus* of Blume. The small potato-like tubers of this plant form one of the food-stuffs of a hill-tribe called 'Kanais' who live near Kannikatti in the Tinnevelly hills.

219. Anisochilus Wall.

327. Anisochilus robustus Hook. f. ?—F. B. I., iv, p. 629.
Naterikal, 4,000 ft., No. 38479.

There are no specimens of this species in the Calcutta Herbarium. As my specimen is too imperfect, having neither flowers nor fruits, the identification has to remain as doubtful. The leaves are altogether different from any other *Anisochilus* in the Calcutta Herbarium.

The species appears to have been once only collected by Wight at Courtallum, Tinnevelly District.

328. Anisochilus scaber Benth.—F. B. I., iv, p. 627.
Naterikal to Sengalteri, 3,500 ft., No. 38623.
Distr. Tinnevelly.
Probably restricted to the Tinnevelly hills.

220. Pogostemon Desf.

329. Pogostemon mollis Benth.—F. B. I., iv, pp. 635-636.
Sengalteri, 3,000 ft., No. 39203.
Distr. Nilgiri hills.

330. Pogostemon paniculatus Benth.—F. B. I., iv, p. 631.
Naterikal, 4,000 ft., Nos. 38553, 38573.
Distr. Lower Burma and South Peninsular India.

221. Scutellaria Linn.

331. Scutellaria violacea Heyne.—F. B. I., iv, p. 668.
Naterikal to Sengalteri, 3,500 ft., Nos. 38614, 38365, 38516.
Distr. South Peninsular Indian Mountains and Ceylon.

222. Anisomeles Br.

332. Anisomeles malabarica R. Br.—F. B. I., iv, p. 673.
Naterikal road, 2,000 ft., No. 38425 ; Sengalteri to Kalkad, No. 39244.
Distr. South Peninsular India and Ceylon.

223. Leucas Br.

333. Leucas biflora Br.—F. B. I., iv, p. 683.
Sengalteri, 3,000 ft., No. 39208.
Distr. South Peninsular India and Ceylon.

334. Leucas hirta spreng.—F. B. I., p. 687.
Sengalteri, 3,000 ft., No. 39206.
Distr. South Peninsular India.

335. Leucas lamiifolia Desf.—F. B. I., iv, 686.
Naterikal, 4,000 ft., No. 38540.
Distr. Mountains of Southern Peninsular India.

224. Leonotis Br.

336. Leonotis nepetæfolia Br.—F. B. I., iv, p. 691.
Mundandurai, 700 ft., No. 39298.
Distr. Throughout India and Ceylon generally.

225. Teucrium Linn.

337. Teucrium sp. nov. ?—species affinis Teucrio tomentoso *Heyne. Caulis* ad 60-70 cm. altus, 4-angulatus, pubescens ; *Folia* opposita, petiolata ; petiolus 3·8 cm.-5 cm. longus ; lamina 6-3 cm.-10·1 cm. longa, 4·4 cm.-7·6 cm. lata, ovata, basi truncata vel cuneata, serrata, acuta, minutissime puberula, membranacea, nervis 6-paribus. *Paniculæ* racemose-ramosæ. *Bracteæ* 5·2 mm. longæ, ellipticæ, acuminatæ. *Pedicellæ* 2·1 mm. longæ. *Calyx* 7·4 mm. longus, 10-nervis, extus glanduloso-pubescens, intus villosus ; dente supremo late orbiculare cuspidatæ, lateralibus breviore late triangulare, infimis lanceolati acuminati ; *corollæ* albæ, 19 mm. longæ. *Stamina* 4 exserta. *Antheræ* reniformæ. *Nuculæ* minutissime reticulatæ.

Naterikal to Sengalteri, 3,500 feet, No. 38609. [PLATE II.]

This differs from *Teucrium tomentosum Heyne* in the following points :—

(1) The uppermost calyx-teeth is broadly orbicular and cuspidate.

(2) The two lateral teeth are very short, broadly triangular and acute.

(3) The corolla is larger.
(4) The petiole is longer and the leaf is nearly glabrous.

MONOCHLAMYDEÆ.

LXVIII.—NYCTAGINEÆ.

226. Boerhaavia Linn.

338. Boerhaavia repens Linn.—F. B. I., iv, p. 709.
Naterikal, 4,000 ft., No. 38501.
Distr. Throughout India generally.

227. Pisonia Linn.

339. Pisonia aculeata Linn.—F. B. I., iv, p. 711.
Tirukarungudi, No. 38317 ; Naterikal, 4,000 ft., No.38442 ; Sengalteri to Kalkad, No. 39273.
Distr. Southern Peninsular India, Ceylon and Burma.

LXIX.—AMARANTACEÆ.

228. Celosia Linn.

340. Celosia pulchella Moq.—F. B. I., iv, p. 715.
Sengalteri to Kalkad, 3,000 ft., No. 39234.
Distr. Nilgiri hills, Ceylon.

229. Achyranthes Linn.

341. Achyranthes bidentata Blume.—F. B. I., iv, p. 730.
Naterikal to Sengalteri, 3,500 ft., No. 38621.
Distr. Throughout India and Ceylon generally.

230. Aerua Forsk.

342. Aerua lanata Juss.—F. B. I., iv, p. 728.
Naterikal, No. 38402.
Distr. Plains of India generally and Ceylon.

LXX.—POLYGONACEÆ.

231. Polygonum Linn.

343. Polygonum chinense Linn. var. ovalifolia—F. B. I., v, pp. 44-45.
Naterikal, 4,000 ft., Nos. 38533, 38371.
Distr. Generally throughout Indian hills.

LXXI.—ARISTOLOCHIACEÆ.

232. Aristolochia Linn.

344. Aristolochia indica Chois.—F. B. I., v, p. 75.
Sengalteri to Kalkad, No. 39265.
Distr. Throughout India.

345. Aristolochia Roxburghiana Klotzsch.—F. B. I., v, pp. 75-76.
Naterikal, No. 38395.
Distr. Eastern and Western Peninsula and Ceylon.

LXXII.—PIPERACEÆ.

233. Piper Linn.

346. Piper nigrum Linn.—F. B. I., v, pp. 90-91.
Sengalteri to Kalkad, No. 39261.
Distr. Peninsular India and Ceylon, also found in damp parts in India generally.

347. *Piper nilghirianum CDC.
Naterikal to Sengalteri, 3,500 ft., No. 38685.
Distr. Nilgiri hills and Coorg.

234. Peperomia Ruiz. and Pav.

348. Peperomia reflexa A. Dietr.—F. B. I., v, p. 99.
Naterikal, 4,000 ft., No. 38549.
Distr. Sub-tropical Himalaya, Upper Assam, Khasia, Tinnevelly and Ceylon.

LXXIII.—CHLORANTHACEÆ.

235. Chloranthus Swartz.

349. Chloranthus brachystachyus Bl.—F. B. I., v, p. 100.
Naterikal, 4,000 ft., Nos. 38563, 38657.
Distr. Assam, Upper Burma, Travancore, Malabar and Ceylon.

LXXIV.—LAURINEÆ.

236. Cinnamomum Blume.

350. Cinnamomum gracile Hook. f.—F. B. I., v, p. 133.
Kannikatti, 2,500 ft., No. 39410.
Distr. Tinnevelly hills.

Cinnamomum spp.
Two or three other species of Cinnamomum were collected but unfortunately none were either in flower or fruit.

237. Actinodaphne Nees.

351. Actinodaphne (angustifolia Nees).—F. B. I., v, p. 152.
Naterikal, 4,000 ft., No. 38560.
Distr. Throughout India generally.

238. Litsea Lamk.

352. Litsea sebifera Pers.—F. B. I., v, p. 157.
Naterikal, 4,000 ft., No. 38559.
Distr. Throughout India generally.

353. Litsea Wightiana Hook. f.—F. B. I., v, p. 177.
Kannikatti, 2,500 ft., No. 39407.
Distr. Nilgiri hills and Tinnevelly.

354. Litsea zeylanica Nees.—F. B. I., v, p. 178.
Mundandurai to Kannikatti, 1,500 ft.—2,500 ft., Nos. 39361, 39398.
Distr. Throughout India generally, one or other of its various forms.

355. Litsea sp.—Too incomplete.
Naterikal, 4,000 ft., No. 38575.

LXXV.—THYMELÆACEÆ.

239. Lasiosiphon Fresen.

356. Lasiosiphon eriocephalus Dcne.—F. B. I., v, p. 197.
Naterikal, 4,000 ft., Nos. 38399, 38586.
Distr. Southern Peninsular India and Ceylon.

LXXVI.—LORANTHACEÆ.

240. Loranthus Linn.

357. Loranthus longiflorus Desr. var. **falcatus.**—F. B. I., v, p. 215.
Naterikal, No. 38435.
Distr. Southern Peninsular India and Ceylon.

358. Loranthus tomentosus Heyne.—F. B. I., v, p. 212.
Naterikal, No. 38359.
Distr. North Kanara and Ceylon.

241. Viscum Linn.

359. Viscum articulatum Burm.—F. B. I., v, p. 226.
Mundandurai to Kannikatti, 2,000 ft., No. 39392.
Distr. Throughout the hills of India below 6,000 ft.

LXXVII.—SANTALACEÆ.

242. Santalum Linn.

360. Santalum album Linn.—F. B. I., v, p. 231.
Naterikal, 4,000 ft., No. 38582.
Distr. Peninsular India—also cultivated.

243. Osyris Linn.

361. Osyris arborea Wall.—F. B. I., v. p. 232.
Naterikal, 3,000 ft., No. 38384.
Distr. Lower Himalaya, Peninsular India and Ceylon.

LXXVIII.—BALANOPHOREÆ.

244. Balanophora Forst.

362. Balanophora indica Wall.—F. B. I., v, pp. 237-238.
Naterikal to Sengalteri. 3,500 ft., No. 38686.
Distr. Southern Peninsular India, Nilgiri hills and Ceylon.

LXXIX.—EUPHORBIACEÆ.

245. Euphorbia Linn. (Det. by Major A. T. Gage, I.M.S.)

363. Euphorbia cristata Heyne.—F. B. I., v, p. 247.
Naterikal, 3,500 ft., No. 38385; Sengalteri to Kalkad, No. 39221.
Distr. Peninsular India, Central India and Ceylon. Probably Burma.

364. Euphorbia Rothiana Spreng.—F. B. I., v, p. 263.
Naterikal, 4,000 ft., No. 38545.
Distr. Peninsular India and Ceylon.

246. Bridelia Willd. (Det. by Major A. T. Gage, I.M.S.)

365. Bridelia retusa Spreng.—F. B. I., v, p. 268.
Nardkhani shola, 2,000 ft., No. 38341; Naterikal, 4,000 ft., No. 38414.
Distr. Throughout India generally.

366. Bridelia scandens Willd.—F. B. I., v, p. 270.
Mundandurai to Kannikatti, 2,000 ft., No. 39363.
Distr. Throughout India generally.

247. Actephila Bl.

367. Actephila excelsa Muell. Arg.—F. B. I., v, p. 282.
Mundandurai to Kannikatti, 1,700 ft., No. 39378.
Distr. Assam, Khasia, Peninsular India and Ceylon

248. Phyllanthus Linn. (Det. by Major A. T. Gage, I.M.S.)

368. Phylanthus Emblica Linn.—F. B. I., v, p. 289.
Naterikal, 4,000 ft., No. 38505.
Distr. Throughout India generally.

369. Phyllanthus maderaspatensis Linn.—F. B. I., v, p. 292.
Mundandurai, 700 ft., No. 39337; Sengalteri to Kalkad, 2,000 ft. No. 39269.
Distr. Penninsular India and Ceylon.

370. Phyllanthus polyphyllus Willd.—F. B. I., v, p. 290.
Naterikal, 4,000 ft., No. 38374.
Distr. Peninsular India and Ceylon.

371. Phyllanthus reticulatus Poir.—F. B. I., v, p. 288.
Tirukarungudi, No. 38307; Naterikal, 4,000 ft., No. 38505.
Distr. Throughout India generally.

249. Glochidion Forst. (Det. by Major A. T. Gage, I.M.S.)

372. Glochidion ellipticum Wight.—F. B. I., v, p. 321.
Naterikal, 3,500 ft., No. 38463.
Distr. Malabar.

250. Breynia Forst.

373. Breynia rhamnoides Muell. Arg.—F. B. I., v, p. 330.
Naterikal road, 2,500 ft., Nos. 38419, 38498 and 38594.
Distr. Throughout India generally.

251. Sauropus Bl.

374. Sauropus albicans Bl.—F. B. I., v, p. 332.
Naterikal, 3,500-4,000 ft., Nos. 38404, 38604.
Distr. Sikkim, Burma, Southern Peninsular India and Ceylon.

252. Givotia Griff.

375. Givotia rottleriformis Griff.—F. B. I., v, p. 395.
Naterikal, No. 38386.
Distr. Southern Peninsular India and Ceylon.

253. Agrostistachys Dalz.

376. Agrostistachys indica Dalz.—F. B. I., v, p. 406.
Naterikal, 4,000 ft., No. 38572; Naterikal to Sengalteri, 3,500 ft., No. 38641.
Distr. Southernmost part of the Peninsula and Ceylon.

254. Acalypha Linn.

377. **Acalypha ciliata** Forsk.—F. B. I., v, p. 417.
Sengalteri to Kalkad, No. 39276.
Distr. Western Himalaya, Peninsular India and Ceylon.

378. **Acalypha paniculata** Miq.—F. B. I., v, p. 415.
Sengalteri to Kalkad, No. 39275.
Distr. Peninsular India and Ceylon.

255. Mallotus Lour.

379. **Mallotus Beddomei** Hook. f.—F. B. I., v, p. 438.
Naterikal to Sengalteri, 3,500 ft., No. 38683.
Distr. Tinnevelly.

380. **Mallotus phillippinensis** Muell. Arg.—F. B. I., v, pp. 442-443.
Mundandurai to Kannikatti, 1,700 ft., No. 39379.
Distr. Throughout India generally.

381. **Mallotus stenanthus** Muell. Arg.—F. B. I., v, p. 437.
Mundandurai to Kannikatti, 2,000 ft., Nos. 39362, 39401.
Distr. Canara and Tinnevelly.
Probably restricted to this area.

256. Macaranga Thouars.

382. **Macaranga Roxburghii** Wight.—F. B. I., v, p. 448.
Mundandurai to Kannikatti, 2,300 ft., No. 39369.
Distr. Southern Peninsular India and Ceylon.

257. Gelonium Roxb.

383. **Gelonium lanceolatum** Willd.—F. B. I., v, p. 459.
Mundandurai, 700 ft., No. 39323.
Distr. Southern Peninsular India and Ceylon.

258. Excoecaria Linn.

384. **Excoecaria crenulata** Wight.—F. B. I., v, p. 473.
Sengalteri to Kalkad, 3,000 ft., No. 39226.
Distr. Southern Peninsular India and Ceylon.

LXXX.—URTICACEÆ.

259. Celtis Linn.

385. **Celtis Wightii** Planch.—F. B. I., v, p. 483.
Nardkhani, 2,000 ft., Nos. 38339, 38340; Papanasam to Mundandurai, No. 39281.
Distr. Southern Peninsular India, Ceylon.

260. **Dorstenia** Linn.

386. **Dorstenia indica** Wall.—F. B. I., v, p. 494.
Naterikal to Sengalteri, 3,500 ft., Nos. 38600, 38601.
Distr. Southern Peninsular Indian hills, Ceylon

261. **Ficus** Linn.

387. **Ficus hispida** Linn. f.—F. B. I., v, pp. 522-523.
Mundandurai to Kannikatti, 700 ft., No. 39390.
Distr. Throughout India.

262. **Pilea** Lindl.

388. **Pilea Wightii** Wedd.—F. B. I., v, pp. 554-555.
Naterikal 4,000 ft., No. 38548.
Distr. Temperate Himalaya, Sikkim, Nilgiri, Ceylon, all in high hills.

263. **Elatostema** Forst.

389. **Elatostema lineolatum** Wedd.—F. B. I., v, p. 565.
Naterikal to Sengalteri, 3,500 ft., No. 38629.
Distr. Throughout India generally.

390. **Elatostema** sp.
Naterikal to Sengalteri, 3,500 ft., No. 38643; Sengalteri, 3,000 ft., No. 38699.
A small narrow leaved *Elatostema* growing on rocks in running water. No flowers were available.

264. **Pouzolzia** Gaud.

391. **Pouzolzia Bennettiana** Wight.—F. B. I., v, p. 585.
Sengalteri to Kalkad, 3,000 ft., No. 39215.
Distr. Southern Peninsular India and Ceylon.

392. **Pouzolzia pentandra** Benn. var. **Stocksii.**—F. B. I., v, p. 583.
Distr. Peninsular India.

265. **Villebrunea** Gaud.

393. **Villebrunea integrifolia** Gaud. var. **sylvatica.**—F. B. I., v, p. 589.
Naterikal, 3,500 ft., No. 38651.
Distr. Sikkim, Assam, Burma, Andamans, Western Ghats and Ceylon.

266. **Debregeasia** Gaud.

394. **Debregeasia velutina** Gaud.—F. B. I., v, p. 590.
Naterikal, 4,000 ft., No. 38354.
Distr. North-East India, Lower Burma, Peninsular India and Ceylon.

MONOCOTYLEDONES.

LXXXI.—ORCHIDACEÆ.

267. Oberonia Lindl.

395. *Oberonia zeylanica Hook. f.—F. B. I., v, p. 680.
Naterikal to Sengalteri, 3,500 ft., No. 38682.
Distr. Ceylon.

268. Eria Lindl.

396. Eria (pauciflora Wight).—F. B. I., v, p. 799.
Naterikal, 4,000 ft., Nos. 38585, 38678.
Distr. Southern Peninsular India.
I hesitate to give this identification as my plant was collected without flower or fruit.

269. Tainia Bl.

397. *Ania latifolia Wight. Ic. t. 914 not *Tainia bicornis Benth* as given in F. B. I., Naterikal to Sengalteri, 3,500 ft., No. 38637.
Distr. Probably confined to Travancore and Tinnevelly.

270. Calanthe Br.

398. Calanthe Masuca Lindl.—F. B. I., v, pp. 850-851.
Naterikal to Sengalteri, 3,500 ft., No. 38671.
Distr. Eastern Himalaya, Southern Peninsular India.

271. Cymbidium Swartz.

399. Cymbidium sp.
Naterikal to Sengalteri, 3,500 ft., Nos. 38639, 38672.

272. Aerides Lour.

400. Aerides cylindricum Lindl —F. B. I., vi, p. 44.
Naterikal, by streams, 4,000 ft., No. 38509.
Distr. Mysore, Nilgiri hills, and Ceylon.

273. Vanda Br.

401. Vanda Roxburghii Br.—F. B. I., vi, p. 52.
Kannikatti, 2,500 ft., No. 39245.
Distr. Bengal, Peninsular India, Ceylon and Lower Burma.

LXXXII.—SCITAMINEÆ.

274. Curcuma Linn.

402. Curcuma aromatica Salisb ?—F. B. I., vi, p. 210.
Naterikal, 4,000 ft., No. 38561.
Distr. Throughout India generally.
The material is without flowers or fruits so that it is impossible for me to be certain of the species.

275. Amomum Linn.

403. ***Amomum floribundum** Benth.—F. B. I., vi, p. 233.
Naterikal, 4,000 ft., No. 38687 A.
Distr. Ceylon.

276. Elettaria Maton.

404. Elettaria Cardamomum Maton.—F. B. I., vi, p. 251.
Naterikal to Sengalteri, 3,500 ft., No. 38687.
Distr. Southernmost part of the Western Ghats. Cultivated in other places. (The cardamomum.)

277. Alpinia Linn.

405. Alpinia Allughas Rosc.—F. B. I., vi, pp. 253-254.
Naterikal, 4,000 ft., No. 38352.
Distr. Throughout India generally.

LXXXIII.—HÆMODORACEÆ.

278. Ophiopogon Ker.

406. Ophiopogon intermedius Don.—F. B. I., vi,p p. 269.
Naterikal to Sengalteri, 3,500 ft., No. 38653.
Distr. Himalaya, Khasia, North-East India, Southern Peninsular India and Ceylon.

LXXXIV.—AMARYLLIDEÆ.

279. Curculigo Gaertn.

407. Curculigo Finlaysoniana Wall.—F. B. I., vi, p. 279.
Mundandurai to Kannikatti, 2,200 ft., No. 39366.
Distr. Southernmost part of the Peninsula and Ceylon.

LXXXV.—DIOSCOREACEÆ.

280. **Dioscorea** Linn.

408. **Dioscorea oppositifolia** Linn.—F. B. I., vi, p. 292.
Mundandurai, 700 ft., No. 39317.
Distr. Nearly throughout India.

409. **Dioscorea pentaphylla** Linn. var. **Rheedei**, Prain & Burkill.
Sengalteri to Kalkad, 2,000 ft., No. 39225; Mundandurai, 700 ft., No. 39320.
Distr. South India.

410. **Dioscorea spicata** Roth.—F. B. I., vi, p. 291.
Naterikal to Sengalteri, 3,500 ft., No. 38644.

LXXXVI.—LILIACEÆ.

281. **Smilax** Linn.

411. **Smilax zeylanica** Linn.—F. B. I., vi, pp. 309-310.
Naterikal, 4,000 ft., No. 38538; Mundandurai to Kannikatti, 2,000 ft., Nos. 39376, 39377.
Distr. Throughout India generally.

282. **Asparagus** Linn.

412. **Asparagus racemosus** Willd.—F. B. I., vi, p. 316.
Naterikal, 4,000 ft., Nos. 38432, 38552.
Distr. Throughout India generally.

283. **Dracæna** Linn.

413. **Dracæna terniflora** Roxb.—F. B. I., vi, pp. 328-329.
Kannikatti, 2,500 ft., No. 39419.
Distr. North-East India, Peninsular India.

284. **Dianella** Lamk.

414. ***Dianella ensifolia** Redouté.—F. B. I., vi, p. 337.
Naterikal to Sengalteri, 3,500-4,000 ft; Nos. 38571, 38668.
Distr. North-East India, Burma, Malay Peninsula.
New to this area.

285. **Gloriosa** Linn.

415. **Gloriosa superba** Linn.—F. B. I., iv, p. 358.
Tirukarungudi, No. 38304.
Distr. Throughout Tropical India and Ceylon.

LXXXVII.—COMMELINCEÆ.

286. Cyanotis Don.

416. Cyanotis cristata Schultes. f.—F. B. I., vi, p. 385.
Mundandurai, 700 ft., No. 39350.
Distr. Throughout India.

417. Cyanotis villosa Schultes. f.—F. B. I., iv, p. 387.
Naterikal, No. 38370.
Distr. Southern Peninsular India and Ceylon.

287. Floscopa Lour.

418. Floscopa scandens Lour.—F. B. I., iv, p. 390.
Mundandurai to Kannikatti, 2,000 ft., No. 39382.
Distr. Throughout India in swampy places.

LXXXVIII.—PALMEÆ.

288. Phœnix Linn.

419. Phœnix humilis Royle.—F. B. I., vi, p. 426.
Naterikal, 3-4,000 ft., No. 38454.
Distr. Throughout India.

289. Calamus Linn.

420. Calamus pseudo-tenuis Becc. mss.—F. B. I., vi, p. 445.
Naterikal, 4,000 ft., No. 38574.
Distr. Southern Peninsular India and Ceylon.

LXXXIX.—AROIDEÆ.

290. Lagenandra Dalz.

421. Lagenandra toxicaria Dalz.—F. B. I., vi, p. 495.
Kannikatti, 2,500 ft., No. 39426.
Distr. Southern Peninsular India and Ceylon, in marshes.

291. Arisaema Mart.

422. Arisaema Leschenaultii Blume.—F. B. I., vi, p. 504.
Naterikal, 4,000 ft., No. 38527.
Distr. South-Western Peninsular India.

292. Anaphyllum Schott.

423. *Anaphyllum Beddomei Engl. in Das Pflanzenreich, iv, 23c. 1911, pp. 26-27.
Naterikal, 4,000 ft., No. 38554.

Distr. Travancore and Tinnevelly hills. Previous to this, the only known Indian species of *Anaphyllum* was *A. Wightii Schott.* The present species, however, is distinguished from it chiefly by its oblong-ovate non-spiral spathe and by the form of the leaf.

293. Pothos Linn.

424. Pothos scandens Linn.—F. B. I., vi, pp. 551-552.
Mundandurai to Kannikatti, 2,200 ft., No. 39365.
Distr. Throughout India.

XC.—NAIADACEÆ.

294. Aponogeton Thunb.

425. Aponogeton monostachyon Linn. f.—F. B. I., vi, p. 564.
Mundandurai to Kannikatti, 1,700 ft., No. 39393.
Distr. Throughout India and Ceylon.

XCI.—ERIOCAULEÆ.

295. Eriocaulon Linn.

426. Eriocaulon (sexangulare Linn.)—F. B. I., vi, p. 580.
Mundandurai to Kannikatti, 1,000 ft., No. 39436.
Distr. Southern Peninsular India, Lower Burma and Ceylon.
The material of *Eriocaulon* in the Calcutta Herbarium is too inadequate for accurate identification of the species.

XCII.—CYPERACEÆ.

296. Cyperus Linn.

427. Cyperus corymbosus Rottb.Var. Pangorei *C. B. Clarke.* F. B. I., vi, p. 612.
Sengalteri to Kalkad, No. 39228.
Distr. Southern Peninsular India.
This species is of economic importance as the famous Tinnevelly mats are manufactured out of this plant.

428. Cyperus Haspan Linn.—F. B. I., vi, p. 600.
Mundandurai, 700 ft., No. 39349.
Distr. Throughout India.

297. Fimbristylis Vahl.

429. Fimbristylis complanata Link.—F. B. I., vi, p. 646.
Mundandurai, 700 ft., No. 39355.
Distr. Throughout India.

298. Scirpus Linn.

430. Scirpus mucronatus Linn.—F. B. I., vi, p. 657.
Naterikal, 4,000 ft., No. 38551.
Distr. Throughout India.

299. Carex Linn.

431. Carex baccans Nees.—F. B. I., vi, p. 722.
Naterikal to Sengalteri, 3,500 ft., No. 38654.
Distr. North-East India and Western Ghats from Malabar to Ceylon.

432. Carex leucantha Arn. F. B. I., vi, p. 721.
Naterikal to Sengalteri, 3,500 ft., No. 38655.
Distr. Tinnevelly..

433. Carex Myosurus Nees. F. B. I., vi, p. 723.
Naterikal, 4,000 ft., No. 38566.
Distr. Southernmost part of the Western Ghats, also Tinnevelly.

XCIII.—GRAMINEÆ.

300. Isachne Br.

434. Isachne Walkeri W. & A.—F. B. I. VII. p. 26.
Naterikal to Sengalteri, 3,500 ft. 38605.
Distr. Nilgiri hills. Ceylon

301. Panicum Linn.

435. Panicum plicatum Lamk.—F. B. I., vii, p. 55.
Naterikal, 3,-4,000 ft., No. 38403.
Distr. Throughout the hilly parts of India.

436. Panicum ramosum Linn.—F. B. I., vii, p. 36.
Tirukarungudi, No. 38488.
Distr. Plains of India.

302. Oplismenus Beauv.

437. Oplismenus compositus Beauv.—F. B. I., vii, pp. 66-67.
Naterikal to Sengalteri, 3,500 ft., No. 38606.
Distr. Throughout India.

303. Arundinella Raddi.

438. Arundinella nervosa Nees ?—F. B. I., vii, p. 70.
Naterikal, 4,000 ft., No. 38506.
Distr. Southern Peninsular India.

304. Sacharum Linn.

439. **Saccharum spontaneum** Linn.—F. B. I., vii, p. 118.
Tirukarungudi, No. 38494.
Distr. Throughout India.

305. Andropogon. Linn.

440. **Andropogon contortus** Linn.—F. B. I., vii, p. 199.
Naterikal road to Tirukarungudi, 1,000 ft., No. 38456.
Distr. Throughout India and Ceylon.

441. **Andropogon monticola** Schult.—F. B. I., vii, p. 192.
Naterikal road, 2,000 ft., No. 38457.
Distr. Hilly districts of India generally.

442. **Andropogon Nardus** Linn. var. **luridus.**—F. B. I., vii, pp. 205-207.
Sengalteri to Kalkad, 1,000 ft., No. 39277.
Distr. Nilgiri hills and Ceylon.

443. **Andropogon Nardus** Linn. var. **flexuosus** Hack.—F. B. I., vii, p. 207.
Naterikal road, 1,500 ft., No. 38424.
Distr. Southern Peninsular India.

306. Pseudanthistiria Hook. f.

444. **Pseudanthistiria umbellata** Hook. f.—F. B. I., vii, p. 220.
Naterikal, 4,000 ft., No. 38577.
Distr. Southern Peninsuar India and Ceylon.

307. Aristida Linn.

445. **Aristida Hystrix** Linn. f.—F. B. I., vii, pp. 225-226.
Naterikal road, No. 38507.
Distr. Peninsular India and Ceylon.

308. Eragrostis Beauv.

446. **Eragrostis bifaria** Wight.—F. B. I., vii, p. 325.
Tirukarungudi, 1,000 ft., No. 38458.
Distr. Peninsular India.

447. **Eragrostis tenella R. & S.** var. **plumosa** Stapf.—F. B. I., vii, p. 315.
Mundandurai, 700 ft., No. 39348.
Distr. Throughout India and Ceylon.

309. Ochlandra Thw.

448. **Ochlandra travancorica** Benth.—F. B. I., vii, p. 419.
Sengalteri, 3,500 ft., No. 39440.
Distr. Travancore and Tinnevelly.
This is the " Bheesha " grass occupying miles of country.

GYMNOSPERMÆ.

XCIV.—CYCADACEÆ.

310. **Cycas** Linn.

449. Cycas circinalis Linn.—F. B. I., v, p. 656.
Mundandurai, 700 ft., No. 39335.
Distr. Southern Peninsular India and Ceylon.
This differs from the type in its smaller leaves with narrower leaflets.

CRYPTOGAMIA.

PTERIDOPHYTA.

XCV.—POLYPODIACEÆ.

311. **Davallia** Sm.

450. Davallia Speluncoe Baker.—Hook and Bak. Syn. Fil., p. 100.
Naterikal, 4,000 ft.
Distr. Throughout India generally.

312. **Adiantum** Linn.

451. Adiantum hispidulum Sw.—Bedd. F. B. I., p. 86.
Naterikal road, 2,000 ft., No. 38508.
Distr. South-Western Peninsular Indian hills and Ceylon.

313. **Cheilanthes** Schwartz.

452. Cheilanthes mysorensis Wall.—Bedd. F. B. I., p. 89.
Naterikal road, 2,000 ft., No. 38452.
Distr. Southern Peninsular India and Ceylon.

314. **Pteris** Linn.

453. Pteris quadriaurita Retz. var. **argentea** Bedd. F. B. I., p. 111.
Naterikal to Sengalteri, 3,500 ft., No. 38635.
Distr. Nilgiri and South-Western Ghats.
Well-known in cultivation.

315. **Blechnum** Linn.

454. Blechnum orientale Linn.—Bedd. F. B. I., p. 132.
Mundandurai to Kannikatti, 2,000 ft., No. 39400.
Distr. Throughout India and Ceylon.

316. Asplenium Linn.

455. Asplenium falcatum Lamk.—Bedd. F. B. I., p. 150.
Mundandurai to Kannikatti, No. 39399.
Distr. South-Western Peninsular India, Ceylon, Malay Peninsula.

456. Asplenium lunulatum Sw.—Bedd. F. B. I., p. 147.
Naterikal to Sengalteri, 3,500 ft., No. 58603.
Distr. South-Western Ghats and Ceylon.

317. Actiniopteris Link.

457. Actiniopteris dichotoma (*Forsk*, under Acxostichum).—Bedd. F. B. I. p. 197.
Papanasam to Mundandurai, No. 39294.
Distr. Throughout India, especially Southern Peninsular India and Ceylon.

318. Aspidium Swartz.

458. Aspidium aristatum Sw.—Bedd. F. B. I., p. 229.
Naterikal, 4,000 ft., Nos. 38570, 38674.
Distr. Southern Peninsular India, Ceylon and Burma.

319. Nephrolepis Schott.

459. Nephrolepis tuberosa Presl.—Bedd. F. B. I., p. 282.
Naterikal, at 3,500 ft., No. 38650.
Distr. Throughout India.

320. Polypodium Linn.

460. Polypodium lineare Thunb.—Bedd. F. B. I., p. 346.
Naterikal, 3,500 ft., No. 38658.
Distr. Himalaya, Khasia, South-Western Peninsular India, Ceylon, Malay Peninsula.

321. Niphobolus Kaulf.

461. Niphobolus fissus Bl.—Bedd. F. B. I., p. 330.
Naterikal, at 3,500 ft., No. 38647.
Distr. South-Western Peninsular India, Ceylon, Himalaya, Khasia, Malay Peninsula.

322. **Vittaria** Sm.

462. Vittaria elongata Sw.—Bedd. F. B. I., p. 404.
Naterikal, at 3,500 ft., No. 38659.
Distr. South-Western India on the mountains, Ceylon, Malay Peninsula, Burma.

323. **Drymoglossum** Presl.

463. Drymoglossum piloselloides Presl.—Bedd. F. B. I., p. 411-412.
Mundandurai, 2,000 ft. No. 39381.
Distr. Bengal plains, Burma, Ceylon, South Indian mountains.

324. **Hemionitis** Linn.

464. Hemionitis arifolia (Burm. under *Asplenium.*)
Mundandurai, 700 ft., No. 39330.
Distr. Southern Peninsular India, Eastern Bengal, Ceylon and Lower Burma.

325. **Acrostichum** Linn.

465. Acrostichum crispatulum Wall.
Kannikatti, 2,500 ft., No. 39418.
Distr. Sikkim, Burma, Southern Peninsular India, Ceylon.

XCVI.—SCHIZÆACEÆ.

326. **Lygodium** Sw.

466. Lygodium microphyllum R. Br.—Bedd. F. B. I., p. 455.
Sengalteri to Kalkad, No. 39223.
Distr. Southern Peninsular India, West Coast, Ceylon, Malay Peninsula.

XCVII.—MARATTIACEÆ.

327. **Angiopteris** Hoffm.

467. Angiopteris evecta Hoffm.—Bedd. F. B. I., p. 460.
Naterikal, 4,000 ft., No. 38562.
Distr. Throughout India generally.

XCVIII.—OPHIOGLOSSACEÆ.

328. **Botrychium** Sw.

468. Botrychium daucifolium Wall.—Bedd. F. B. I., p. 469-470.
Naterikal, No. 39441.
Distr. Throughout India.

XCIX.—LYCOPODIACEÆ.

329. Lycopodium Linn.

469. **Lycopodium cernuum** Linn.—Bak. Fern. All., p. 23.
Naterikal, 4,000 ft., No. 38511.
Distr. Throughout India.

C. SELAGINELLACEÆ.

330. Selaginella Spreng.

470. **Selaginella plumosa** Baker.—Bak. Fern. All., p. 50.
Naterikal to Sengalteri, 3,500 ft., No. 38649.
Distr. East Himalaya, Southern Peninsular Indian Mountains, Ceylon and Burma.

Explanation of Plates.

Plate I.—Senecio calcadensis *Ramas,* sp. nov.

I. Part of plant (Natural size).
II. Ray Flower.
III. A very young disk-flower.
IV. Corolla of a disk-flower laid open.
V. Anther, with a part of the filament.
VI. Achene with style.
VII. Achene with Pappus.
VIII. Achene and seed.

Plate II.—Teucrium sp. aff. T. tomentosum *Heyne.*

I. Part of plant (Natural size.)
II. Calyx, laid open, showing nutlets.
III. Corolla, with stamens laid open.
IV. Stamens.
V. Ovary and style.

Del. K. P. Dass.

Photo.-Engraved & printed at the Offices of the Survey of India, Calcutta, 1914.

SENECIO CALCADENSIS RAMAS., SP. NOV.

Del. K. P. Dass.

Photo.-Engraved & printed at the Offices of the Survey of India, Calcutta, 1914.

TEUCRIUM SP.-AFF. T. TOMENTOSUM HEYNE.

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